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AIR QUALITY DATA FOR SUSPENDED PARTICULATES - 1969, 1970, AND 1971

Environmental Protection Agency
Research Triangle Park, North Carolina

November 1972

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ENVIRONMENTAL PROTECTION AGENCY
Office of Air Programs
Research Triangle Park, North Carolina 27711

November 1972

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Office of Air Programs Publication No. APTD-1353

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ABSTRACT

Air quality data for suspended particulate matter 1969 through 1971, urban and nonurban sites, are presented. The data reported have been gathered at the co-operating stations of the National Air Surveillance Networks (NASN) and independent State and local sampling networks.

A high volume air sampler (hi-vol) was used for collection and the gravimetric method employed for analysis. Valid data are summarized in a frequency distribution that lists the percent of samples equal to or less than the tabled concentrations. The arithmetic mean and geometric mean are included.

AIR QUALITY DATA FOR SUSPENDED PARTICULATES 1969, 1970, AND 1971

SECTION 1. INTRODUCTION AND SUMMARY

The Environmental Protection Agency (EPA), with the assistance and cooperation of State and local agencies, conducts a variety of air sampling activities to obtain information about the air quality in the United States. Suspended particulate data collected during 1969, 1970, and 1971 by State and local agencies and at the cooperating stations of the National Air Surveillance Networks (NASN) are reported.

SAMPLE COLLECTION AND ANALYSIS

During each 24-hour sampling period a high volume air sampler, or "hi-vol," is used to collect samples by filtering approximately 2300 cubic meters of air through a 20 x 25 centimeter fiber glass filter (using an actual collection area measuring 18 x 23 centimeters).[1] To calculate concentration, the gain in filter weight in micrograms resulting from the accumulated particulate matter is divided by the volume of air in cubic meters drawn through the filter, yielding the concentration in micrograms of particulates per cubic meter of air ($\mu g/m^3$).

SAMPLING LOCATIONS

To provide an indication of background concentrations, the monitoring sites are divided into two groups: urban sites (Tables 2-1, 3-1, and 4-1), located somewhere within a city or town or its suburban environs; and nonurban sites (Tables 2-2, 3-2, and 4-2), located in rural or remote areas.

Each monitoring site is assigned a unique code number. Details of site coding and a list of codes already assigned are found in SAROAD Station Coding Manual.[2] Briefly, each twelve digit site identification number is assigned as follows: the first two digits identify the State, the next four digits identify a city of at least 2500 persons or a county. (In some states the corresponding jurisdiction is a parish, election district, or regional planning district.) The next three digits

designate a specific address where the sampling equipment is operated. For example, 090020001 A01 refers to State 09 (District of Columbia) city 0200 (Washington), and site 001 (301 Indiana Avenue, N.W.).

The final three characters designate the agency-project code. Some of the principal agency-project codes are:

A01 EPA, population oriented surveillance
A03 EPA, background surveillance
F01 State agency, population oriented surveillance
G01 County agency, population oriented surveillance
H01 City agency, population oriented surveillance

A listing of sampling site addresses is available in a separate publication.[3]

SAMPLING SCHEDULES

The NASN data within this section originate from one 24-hour sample collected during each of the 26 successive 2-week periods through the year. (Some State and local agencies collect samples more frequently). The sampling days were chosen randomly except for the provision that all days of the week be fairly represented. In order to have reasonable assurance that the annual summary statistics are representative, each station's data must be distributed over the calendar year so that they meet the following validity criteria for inclusion in this summary publication: a minimum of five valid scheduled samples must be collected in each quarter (Jan., Feb., Mar., etc.) If no samples are collected in one month, neither of the other two months in that quarter may have less than two valid samples. Obviously, it is desirable for networks that schedule more frequent sampling to strive for a more balanced distribution of measurements than the possible extreme combinations that could technically meet these minimum conditions for NASN stations.

DATA SUMMARIES

Valid data are summarized in a frequency distribution that lists the percent of samples equal to or less than the tabled concentration. In the example below--50 percent of the particulate samples had concentrations equal to or less than 101 $\mu g/m^3$.

Number of Samples	Min.	Frequency distribution, %									Max.	Arithmetic		Geometric	
		10	20	30	40	50	60	70	80	90		Mean	Std. Dev.	Mean	Std. Dev.
26	23	47	61	68	86	101	112	147	167	213	397	120	68.23	100	1.83

The last four columns contain the arithmetic mean and standard deviation and the geometric mean and standard deviation. The geometric mean is used because it

is usually closer to the median or 50th percentile and therefore is a better indicator of the typical concentration. In the example both the primary (75 $\mu g/m^3$), and secondary (60 $\mu g/m^3$) standards for annual geometric mean are exceeded. The standards for individual 24-hour samples are also exceeded in the example; the maximum sample concentration 397 $\mu g/m^3$ exceeds the primary 24-hour standard (260 $\mu g/m^3$), and by interpolating from the frequency distribution, an estimated 25 percent of the samples exceeded the secondary standard (150 $\mu g/m^3$).

REFERENCES

1. Federal Register, Vol. 1, No. 84, Part II, April 30, 1971, pp. 8191-8194.
2. Fair, D. H., SAROAD Station Coding Manual, U. S. Environmental Protection Agency, Office of Air Programs Publication No. APTD-0907, Research Triangle Park, North Carolina 27711.
3. Directory of Air Quality Monitoring Sites, 1971, U. S. Environmental Protection Agency, Office of Air Programs Publication No. APTD-0979, Research Triangle Park, North Carolina 27711.

SECTION 2. URBAN AND NONURBAN SUSPENDED PARTICULATE MATTER, 1969

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Table 2-1. SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969.

04/14/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ALABAMA																
GADSDEN																
01140031 A01	26	26	33	47	48	50	54	64	75	78	108	126	64	26.90	60	1.50
FLATSVILLE																
01180001 A01	26	18	36	45	48	49	52	58	70	86	114	133	64	28.39	58	1.56
MOBILE																
01280001 A01	22	72	74	85	88	106	117	138	170	193	202	296	134	58.40	124	1.51
MONTGOMERY																
01460001 A01	26	16	40	54	60	70	78	94	107	112	142	150	84	35.79	75	1.67
ALASKA																
ANCHORAGE																
02000001 A01	25	19	22	28	42	71	108	124	156	166	177	268	104	68.76	79	2.30
FAIRBANKS																
02010001 A01	24	24	65	91	137	166	190	210	269	335	443	876	230	182.23	175	2.21
ARIZONA																
MARICOPA CO																
03040001 A01	26	13	15	19	25	35	41	51	53	54	62	111	42	23.06	37	1.78
PHOENIX																
03060002 A01	26	29	58	90	95	109	117	126	145	158	214	247	123	51.84	112	1.62
TUCSON																
03080001 A01	26	24	40	60	61	74	78	90	109	115	133	138	85	33.36	78	1.57
ARKANSAS																
CROSSETT																
04062001 F01	25	19	72	98	119	125	135	144	153	170	189	220	133	46.22	121	1.67
EL DORADO																
04078001 F01	27	13	23	28	28	30	38	42	53	61	90	119	46	25.65	40	1.69
FORT SMITH																
04092001 F01	25	14	18	28	45	49	52	53	59	61	79	92	50	20.99	45	1.69
LITTLE ROCK																
04144001 A01	26	39	43	53	58	70	75	84	96	102	137	178	81	33.81	75	1.69
04144002 F01	25	16	37	49	60	68	76	113	138	145	155	169	95	47.46	82	1.82
TEXARKANA																
04296001 A01	26	18	27	45	54	59	59	62	80	88	141	167	70	36.37	62	1.68
WEST MEMPHIS																
04274001 A01	22	34	42	46	64	65	68	90	93	108	119	196	81	38.15	73	1.56
CALIFORNIA																
ANAHEIM																
05023001 A01	25	43	48	59	71	73	80	96	135	143	168	261	106	53.00	93	1.62
BURBANK																
05098002 A01	24	41	58	65	74	76	82	92	116	132	143	160	94	34.04	88	1.44
FRESNO																
05240001 A01	25	28	51	65	75	84	90	94	113	137	158	316	106	62.24	92	1.72
GLENDALE																
05294001 A01	26	32	51	54	56	66	74	81	94	103	124	149	79	28.68	74	1.44
LONG BEACH																
05410001 A01	24	52	70	78	87	89	100	103	120	140	166	242	112	46.66	104	1.44
LOS ANGELES																
05419001 A01	24	40	56	60	70	78	91	96	104	147	169	280	104	54.72	93	1.61
OAKLAND																
05530001 A01	26	31	34	44	54	62	69	81	85	113	134	187	79	39.44	70	1.63
ONTARIO																
05538001 A01	25	23	30	52	77	99	115	139	173	186	270	456	140	98.91	109	2.10
RIVERSIDE																
05640001 A01	26	39	53	83	92	118	144	162	187	195	228	255	140	63.36	124	1.72
SACRAMENTO																
05654001 A01	25	13	32	36	44	46	51	57	69	81	119	160	62	34.82	54	1.71
SAN BERNARDINO																
05660001 A01	26	28	33	54	61	77	95	139	162	177	229	245	116	69.89	95	1.86
SAN DIEGO																
05680001 A01	26	37	44	52	62	66	72	78	79	84	115	204	90	39.48	73	1.49
SAN FRANCISCO																
05686001 A01	25	25	32	37	44	47	52	56	64	67	95	137	59	26.39	54	1.52
SAN JOSE																
05699002 A01	26	21	46	57	69	76	78	88	100	122	132	202	88	38.65	80	1.59
SANTA ANA																
05714001 A01	26	64	69	78	87	117	130	143	166	172	252	271	135	60.34	123	1.56

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

8/14/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
CALIFORNIA																
TORRANCE																
056260001 A01	25	15	25	48	57	60	66	70	103	116	153	177	80	44.97	68	1.86
COLORADO																
ADAMS CO																
060020001 F01	90	14	42	63	75	87	98	109	115	138	160	282	105	53.92	91	1.77
ARAPAHOE CO																
060040001 E01	89	5	19	24	28	33	35	38	44	48	66	107	39	19.81	34	1.72
ARVADA																
060120001 F01	94	16	64	77	91	99	109	118	129	161	200	330	122	60.19	109	1.65
AURORA																
060140001 F01	87	12	39	58	64	69	76	86	98	113	133	286	86	42.43	77	1.64
BOULDER																
060200001 F01	87	27	49	61	65	71	78	90	101	121	138	213	89	37.22	82	1.50
BRIGHTON																
060240001 F01	87	22	43	63	71	82	92	102	111	120	133	165	92	34.05	84	1.57
CANON CITY																
060300001 F01	99	12	25	36	47	53	59	64	74	81	113	172	64	33.19	56	1.70
COLORADO SPRINGS																
060380001 F01	101	11	42	56	61	76	87	108	120	144	173	333	100	55.69	85	1.82
DENVER																
060580001 A01	26	31	62	72	78	94	98	132	163	181	207	530	135	96.96	113	1.78
060580001 F01	87	13	68	79	86	96	112	120	137	154	206	391	124	64.39	110	1.67
060580002 A10	173	16	66	85	113	130	141	164	194	253	370	603	179	116.95	147	1.91
060580003 F01	91	20	57	67	84	95	108	127	133	148	173	317	114	53.64	103	1.62
060580004 F01	89	27	80	114	141	168	182	200	224	273	316	580	195	97.60	171	1.73
060580006 F01	87	11	39	48	56	68	75	83	96	110	139	197	81	37.96	71	1.70
060580007 F01	94	19	40	51	57	60	66	73	80	91	103	184	71	27.87	66	1.48
060580008 F01	86	17	42	61	70	78	89	101	112	127	145	286	96	47.66	85	1.68
DOUGLAS CO																
060660001 F01	90	10	26	32	41	47	49	53	62	65	78	136	53	24.76	48	1.61
DURANGO																
060880003 F01	87	17	42	60	62	73	83	89	96	129	163	417	96	60.88	83	1.71
EDGEWATER																
060720001 F01	93	15	48	63	73	83	90	100	109	130	171	327	101	52.58	89	1.70
ENGLEWOOD																
060780001 F01	91	19	59	68	75	87	100	106	120	142	175	256	106	48.43	96	1.60
FORT COLLINS																
060920001 F01	90	32	49	65	79	92	99	110	125	137	199	345	114	62.64	100	1.65
GARFIELD CO																
060940001 F01	97	28	58	75	88	101	115	133	154	208	256	415	138	80.07	118	1.77
060940002 F01	46	19	37	42	52	56	60	65	104	122	152	240	83	47.85	71	1.74
GLENWOOD SPRINGS																
060980001 F01	99	14	39	46	59	67	77	85	97	109	128	207	81	38.36	71	1.71
GOLDEN																
061040001 F01	93	14	44	51	60	70	76	84	89	101	123	259	90	35.94	73	1.57
GREELEY																
061080003 F01	100	17	31	45	54	68	76	88	102	120	163	285	89	55.50	74	1.86
JEFFERSON CO																
061140001 F01	77	6	29	39	43	51	59	63	69	79	91	183	61	27.20	54	1.84
LA JUNTA																
061220001 F01	95	24	34	42	50	54	60	62	68	79	96	132	62	23.59	57	1.47
LAKEWOOD																
061260001 F01	92	12	35	48	55	59	67	74	80	96	114	152	72	30.41	66	1.57
LARIMER CO																
061320002 F01	64	12	24	28	35	44	56	63	69	78	85	150	56	29.13	49	1.73
LITTLETON																
061420001 F01	90	19	47	68	75	84	92	98	113	124	151	198	96	37.83	88	1.55
LOVELAND																
061460001 F01	88	13	49	57	75	85	93	107	118	136	192	422	108	65.81	93	1.78
MEEKER																
061480001 F01	93	19	46	52	62	74	88	100	116	143	175	411	102	63.45	87	1.78
MONTROSE SPRINGS																
061530001 F01	98	10	39	51	60	73	95	95	104	115	130	235	86	40.45	76	1.71
MESA CO																
061520001 F01	82	9	37	48	73	90	98	95	106	122	137	294	90	45.29	75	2.18
PORTERSE																
061620001 F01	81	25	44	55	66	76	95	102	113	149	182	262	101	54.38	90	1.71

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

POLLUTANT : 11101 - PARTICULATE

04/14/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1969

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
COLORADO																
PUEBLO																
061820001 F01	99	29	78	95	111	125	143	156	175	206	257	483	156	78.40	139	1.65
061820003 F01	91	45	84	95	105	122	134	147	160	188	217	407	143	59.15	132	1.48
ROCKY FORD																
061910001 F01	97	28	41	51	58	68	75	86	96	103	138	274	83	39.99	75	1.57
STERLING																
062080001 F01	69	29	46	55	62	69	79	85	108	121	153	299	92	49.97	81	1.62
TRINIDAD																
062160001 F01	101	28	50	59	65	74	83	92	103	122	146	289	92	41.89	83	1.54
WELD CO																
062220001 F01	92	9	42	53	72	78	81	90	113	129	149	508	95	61.06	81	1.84
CONNECTICUT																
BRIDGEPORT																
07C060001 A01	25	48	48	54	57	58	63	66	73	78	98	101	68	16.95	66	1.27
07C060001 F01	24	36	51	52	59	66	77	83	88	98	119	123	77	24.60	73	1.39
HARTFORD																
070420001 A01	25	25	36	41	53	58	62	67	70	89	102	193	69	36.01	62	1.57
NEW BRITAIN																
07C680001 F01	26	15	45	58	70	75	78	90	104	111	125	152	84	32.44	77	1.62
NEW HAVEN																
07C790001 A01	26	30	49	60	63	75	88	99	107	124	166	207	95	42.82	86	1.57
NORWICH																
07C840001 F01	25	22	34	46	49	55	65	71	79	86	87	149	66	25.93	61	1.50
STAMFORD																
071080001 F01	24	27	41	48	53	55	68	85	90	113	121	152	78	34.10	71	1.57
WATERBURY																
071240001 A01	26	40	45	59	65	71	73	82	105	126	140	162	85	34.18	79	1.48
07124C001 F01	23	48	64	68	75	84	85	102	107	143	163	202	104	42.07	96	1.47
DELAWARE																
WILMINGTON																
08C260001 A01	24	31	88	90	96	99	102	116	127	176	236	262	127	58.91	115	1.60
DIST COLUMBIA																
WASHINGTON																
090020001 A01	26	38	49	54	59	71	78	82	90	95	108	120	77	22.58	73	1.37
FLORIDA																
JACKSONVILLE																
101960002 A01	24	31	35	62	63	77	79	87	91	103	116	141	81	27.86	76	1.48
10196002C4 H01	136	21	37	48	63	76	95	107	130	149	162	350	104	61.80	87	1.84
101960036 H01	136	23	34	41	48	52	56	61	65	73	84	110	58	18.79	55	1.39
10196C016 H01	144	43	73	91	108	121	152	175	202	233	296	395	166	84.22	146	1.69
10196CC17 H01	141	14	30	37	44	53	58	74	87	113	152	621	82	71.30	64	1.92
10196002A H01	133	9	30	38	43	47	51	56	62	70	84	118	55	20.97	50	1.52
101960031 H01	138	15	23	28	32	38	42	45	51	59	70	129	45	15.34	41	1.53
101960032 H01	142	1	30	35	41	46	54	57	66	76	91	268	58	30.29	51	1.74
101960033 H01	145	14	35	40	46	52	56	62	68	73	90	118	59	21.35	55	1.46
MIAMI																
10270CCC2 A01	26	17	47	49	54	60	67	76	77	81	89	132	69	23.33	65	1.47
ST PETERSBURG																
103980002 A01	26	20	26	29	30	32	33	36	40	48	55	69	37	11.79	36	1.35
TAMPA																
104360002 A01	26	26	44	55	59	76	78	82	90	97	107	118	76	24.90	71	1.49
WINTER HAVEN																
104860001 F01	26	15	21	28	32	37	39	45	51	54	66	69	42	14.97	39	1.48
GEORGIA																
ATLANTA																
110200001 A01	26	22	52	62	64	76	77	88	95	104	145	166	85	33.47	78	1.54
AUGUSTA																
110220001 F01	26	35	41	47	57	70	72	86	90	105	155	188	84	41.71	75	1.60
BRUNSWICK																
110600001 F01	26	52	69	76	80	89	91	98	108	122	160	195	101	38.23	95	1.42
COLUMBUS																
111240001 A01	24	30	32	33	46	53	58	64	69	86	93	111	61	23.28	56	1.49
111280001 F01	26	24	33	43	53	54	55	63	74	85	115	129	65	28.13	60	1.55
LYONS																
11334CCC1 F01	25	14	19	22	33	31	43	47	55	55	64	74	41	17.62	37	1.61
MACON																
113440001 F01	24	42	46	62	83	88	95	102	106	118	160	204	98	35.43	91	1.50
SAVANNAH																
114530001 A01	25	31	41	53	62	80	92	109	120	144	270	277	112	73.52	93	1.88

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER 25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
GEORGIA SAVANNAH 114503001 F01	22	34	44	63	68	75	99	107	124	128	269	426	124	95.50	100	1.91
VALDOSTA 115220001 F01	23	43	51	67	76	86	94	103	111	131	138	163	98	33.65	92	1.46
HAWAII HONOLULU 120120001 A01	26	18	30	31	33	34	35	41	46	51	69	80	42	15.44	40	1.41
IDAHO BOISE CITY 130220001 A01	29	34	63	71	82	85	93	96	100	119	168	310	105	55.09	95	1.55
ILLINOIS BLUE ISLAND 140500001 G01	120	4	41	54	66	84	98	114	129	158	214	427	119	82.39	99	2.13
CALUMET CITY 140790001 C01	97	6	52	73	91	97	115	133	149	173	213	386	128	68.86	109	1.89
CHICAGO 141220001 A01 141220002 A01	26 103	46 16	76 110	101 138	115 152	129 179	137 194	147 211	178 225	195 250	227 279	245 456	145 199	52.02 70.68	135 186	1.49 1.48
CHICAGO HEIGHTS 141240001 G01	121	11	37	50	62	74	83	96	108	125	153	254	92	47.98	80	1.76
CICERO 141340001 G01	115	15	62	92	107	119	137	149	170	190	222	501	142	67.41	125	1.72
COOK CO 141540001 G01	113	23	63	78	92	106	122	141	158	192	227	490	140	78.89	121	1.71
EAST ST LOUIS 142120001 A01	25	29	77	82	132	111	124	125	141	145	186	209	121	43.22	112	1.57
FLESSNER 142520001 G01	131	6	34	48	56	62	77	83	93	122	147	257	86	50.49	73	1.83
FRANKLIN PARK 142620001 G01	115	16	37	50	56	64	72	88	105	115	144	340	86	48.301	75	1.72
HARVEY 143180001 G01	102	3	49	63	73	82	91	102	118	137	165	394	104	59.93	87	1.98
HILLSIDE 143420001 G01	137	13	36	50	60	70	82	92	107	128	159	350	91	51.90	78	1.81
JOLIET 143760001 A01	23	46	68	83	93	110	121	130	136	170	208	300	130	61.23	118	1.58
MIDLOTHIAN 145080001 G01	128	11	44	55	70	78	85	104	122	134	180	566	105	72.05	89	1.81
NILES 145540001 G01	106	15	35	44	52	56	65	78	94	108	139	249	78	43.61	68	1.72
NORTH CHICAGO 145620001 A01	26	22	32	53	76	90	98	105	113	120	191	208	98	48.93	84	1.81
OAKLAND PARK 145860001 G01	124	5	31	41	54	62	76	83	100	118	168	333	90	61.25	72	2.01
PALATINE 145990001 G01	104	19	29	40	49	60	72	87	103	125	164	226	84	50.90	69	1.93
PEORIA 146080001 A01	26	53	79	89	109	119	119	124	150	208	229	353	144	69.16	130	1.56
RIVER FOREST 146540001 C01	93	12	49	61	71	79	85	105	119	140	171	410	106	63.19	92	1.73
ROCKFORD 146680001 A01	24	24	39	47	62	70	77	88	100	116	167	267	88	46.61	77	1.70
SPRINGFIELD 147280001 A01	25	33	42	46	67	77	81	88	99	108	110	123	81	26.56	76	1.46
WILMETTE 148360301 C01	127	17	28	37	46	54	61	74	85	106	137	192	72	39.45	61	1.78
INDIANA EAST CHICAGO 151180001 A01	25	77	88	106	146	156	170	183	200	238	344	403	187	86.75	170	1.58
EVANSVILLE 151300001 A01	26	31	56	67	71	87	92	97	105	117	150	210	95	37.70	89	1.49
FORT WAYNE 151340001 A01	25	39	48	56	63	73	81	89	103	105	128	178	87	34.77	81	1.48
GARY 151520001 A01	23	49	66	73	95	111	114	127	141	192	241	504	144	102.68	119	1.87

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
INDIANA																
HAMMOND																
151780001 A01	26	15	55	71	76	91	103	116	142	159	276	385	129	90.391	105	1.95
INDIANAPOLIS																
152140001 A01	25	38	46	77	88	107	118	138	143	155	168	224	110	46.831	108	1.59
NEW ALBANY																
152980001 A01	25	37	49	54	67	69	81	82	94	108	116	153	83	29.581	78	1.44
152980002 A01	22	41	61	68	80	104	107	115	123	180	190	221	116	50.711	105	1.58
SOUTH BEND																
153980002 A01	25	25	35	47	54	58	70	75	114	125	150	174	83	44.091	72	1.72
TERRE HAUTE																
154080001 A01	23	50	52	59	71	97	100	101	106	129	155	179	99	36.451	92	1.46
IOWA																
DAVENPORT																
161060001 A01	26	54	78	103	116	130	151	182	233	253	263	319	170	77.951	152	1.67
DES MOINES																
161180001 A01	25	43	46	53	67	75	89	110	132	143	182	214	103	51.821	91	1.67
DUBUQUE																
161260001 A01	24	46	68	70	85	100	112	135	154	219	321	1093	179	211.871	130	2.03
161260002 A01	23	32	37	44	52	60	67	79	83	104	111	268	79	48.851	70	1.63
KANSAS																
KANSAS CITY																
171800002 A01	25	49	58	74	87	91	121	139	158	208	387	472	160	115.631	131	1.87
TOPEKA																
173560001 A01	26	13	23	46	53	67	68	73	78	86	99	105	65	25.281	58	1.70
WICHITA																
173740001 A01	26	20	27	42	43	51	62	67	84	88	122	136	67	32.421	60	1.67
KENTUCKY																
ASHLAND																
180080002 A01	24	43	78	100	110	114	136	170	228	283	321	429	182	106.391	153	1.85
COVINGTON																
180800001 A01	26	36	54	65	74	85	93	95	119	130	172	202	100	41.071	93	1.50
LOUISVILLE																
182380001 A01	25	51	65	77	91	94	120	132	156	175	194	244	127	51.461	118	1.51
LOUISIANA																
BATON ROUGE																
190280001 A01	22	30	40	45	53	59	69	90	100	101	109	179	78	36.681	70	1.59
NEW ORLEANS																
192020002 A01	25	38	45	53	55	65	76	78	82	85	96	183	75	28.851	71	1.40
SHREVEPORT																
192740001 A01	25	28	33	46	47	62	65	70	78	83	104	150	69	28.921	64	1.53
MARYLAND																
BALTIMORE																
215120031 A01	23	45	75	85	92	101	111	115	121	131	152	265	118	49.271	110	1.47
MASSACHUSETTS																
BOSTON																
220240001 A01	24	39	54	55	68	83	86	98	105	115	138	191	92	37.721	85	1.50
CHICOPEE																
220620001 101	222	18	52	59	67	77	86	96	108	129	159	237	94	39.791	86	1.54
FALL RIVER																
220580002 A01	25	25	32	42	50	53	57	62	68	71	86	94	58	18.791	55	1.42
LOWER PICKEER VALL																
220800001 101	206	21	35	46	54	61	67	83	98	119	144	214	82	41.651	72	1.66
SPRINGFIELD																
222160002 A01	26	31	34	41	46	51	53	69	72	73	93	123	61	24.331	56	1.48
222160003 101	217	31	55	77	86	93	106	116	132	157	191	352	117	51.401	106	1.54
WORCHESTER																
222640001 A01	26	38	48	63	64	75	78	90	118	136	178	225	99	51.231	88	1.64
MICHIGAN																
BENTON HARBOR																
230460001 A01	23	16	34	42	56	63	66	75	86	129	139	152	77	40.161	66	1.85
DEARBORN																
231140001 A01	25	32	52	63	78	85	96	134	139	144	158	219	109	53.391	97	1.67
DETROIT																
231180001 A01	25	57	67	78	84	91	136	147	155	174	239	391	129	84.871	116	1.59
FLINT																
231540001 A01	23	42	46	56	61	71	75	80	85	109	152	255	90	51.041	80	1.59

Table 2-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1969

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
MICHIGAN																
GRAND RAPIDS																
2318210C1 A01	26	25	41	45	52	70	76	84	111	115	212	314	98	71.10	80	1.87
2318200C2 F01	24	37	44	51	58	64	68	93	107	132	181	501	105	96.75	84	1.84
2318200C5 F01	25	37	42	44	52	59	64	77	93	98	149	200	80	44.25	71	1.60
2318200C6 F01	27	25	43	47	59	74	85	114	121	134	235	270	103	65.47	87	1.80
2318200007 F01	26	37	57	74	77	92	114	117	125	136	217	250	116	57.29	104	1.64
2318200C10 F01	25	22	33	38	44	50	55	66	73	88	143	164	68	38.14	59	1.67
2318200011 F01	25	29	56	70	79	82	108	117	125	182	186	326	121	67.94	105	1.72
2318200015 F01	24	21	26	29	37	48	50	57	62	80	113	208	62	42.58	52	1.77
2318200018 F01	25	10	19	24	29	36	41	45	54	80	103	146	51	33.92	42	1.92
JACKSON																
2326300C1 F01	24	21	28	30	39	43	53	60	67	91	103	137	59	30.20	52	1.66
KALAMAZOO																
2326400002 F01	26	34	36	42	47	64	81	82	88	100	164	272	86	55.17	73	1.72
LANSING																
2328400C1 A01	26	29	42	48	50	61	68	78	84	88	127	177	7(	37.11	69	1.57
MARQUETTE																
2332600C1 F01	26	20	27	30	38	42	47	53	75	86	109	123	58	30.57	51	1.68
MOUNT CLEMENS																
2333601001 F31	26	21	23	42	51	55	64	79	86	94	141	172	73	38.97	63	1.76
MUSKEGON																
2333400C1 F01	24	17	32	45	54	65	68	108	107	116	126	207	82	44.44	70	1.88
2333400010 F31	23	25	43	61	62	80	94	112	115	127	135	185	95	42.76	85	1.66
2333400011 F01	24	24	32	49	72	75	94	114	148	187	222	279	117	75.44	94	2.06
PONTIAC																
2343200001 F31	25	20	27	42	44	59	68	72	81	90	123	140	71	34.32	63	1.70
ROYAL OAK																
2345800C1 F31	26	26	41	60	64	69	75	84	108	139	180	315	97	59.96	84	1.72
SAGINAW																
2347600C1 A01	26	21	33	48	58	61	67	74	89	90	125	139	73	30.38	66	1.58
SAULT STE MARIE																
2348200C2 F31	23	6	11	15	26	30	38	41	42	63	65	83	38	21.90	31	2.03
SOUTHFIELD																
2348800C01 F01	25	33	40	43	64	66	76	88	105	114	160	227	89	47.83	78	1.68
TRENTON																
2351200C1 A01	23	38	65	74	84	94	96	99	102	140	151	158	101	32.78	95	1.42
MINNESOTA																
DULUTH																
2416400C1 A01	25	22	26	28	52	54	69	72	82	107	136	262	81	61.97	65	1.98
MINNEAPOLIS																
2422600C1 A01	25	30	44	49	56	59	72	77	91	92	98	161	76	31.51	70	1.48
MOORHEAD																
2423200001 A01	25	18	41	45	48	53	56	64	84	102	111	133	68	30.30	62	1.61
ST PAUL																
2433000001 A01	25	33	40	53	56	57	67	71	81	91	127	138	74	30.63	68	1.49
MISSOURI																
KANSAS CITY																
2623400C2 A01	24	49	72	75	86	90	97	122	135	165	178	261	116	49.74	107	1.50
ST LOUIS																
2642400001 A31	23	62	91	106	123	185	202	223	242	328	338	480	213	111.17	186	1.74
2642900C02 A10	164	40	71	83	97	110	124	140	157	182	229	356	136	60.83	124	1.56
2642400C07 H01	50	50	66	81	115	128	155	172	217	235	290	438	174	92.57	151	1.73
2642400312 F01	36	30	37	71	79	95	96	102	108	118	175	207	98	41.35	89	1.59
MONTANA																
HELENA																
2707200C1 A01	25	15	20	21	35	43	53	64	73	82	99	129	58	31.68	49	1.86
NEBRASKA																
OMAHA																
2818800C1 A01	26	29	62	72	91	96	104	112	128	138	163	287	115	56.99	103	1.61
NEVADA																
LAS VEGAS																
2903200C01 A01	22	28	47	49	83	102	112	128	149	169	204	236	119	59.85	102	1.82
RENO																
2904400C1 A01	26	22	38	87	91	95	106	127	171	270	337	854	178	179.48	127	2.28
NEW HAMPSHIRE																
CONCORD																
3001200C1 A01	25	13	18	22	25	27	33	39	43	44	58	60	35	14.40	32	1.56
NEW JERSEY																
BURLINGTON CO																
3100600002 A31	26	24	36	50	53	61	65	71	84	88	109	145	70	27.85	64	1.52

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1969

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
NEW JERSEY																
CAMDEN																
310720001 A01	24	58	77	94	103	123	125	141	143	154	164	194	127	34.99	122	1.35
ELIZABETH																
311300001 A01	25	31	43	55	60	64	72	73	87	93	100	126	74	23.96	70	1.41
GLASSBORO																
311700001 A01	25	15	37	44	51	56	64	72	78	84	112	140	69	29.69	63	1.61
HAPILTON																
311940001 A01	23	28	34	52	55	66	71	74	81	86	93	130	70	24.39	66	1.46
JERSEY CITY																
312320001 A01	26	49	56	63	65	70	87	94	97	116	121	200	89	32.40	84	1.39
NEWARK																
313480001 A01	25	35	44	52	55	64	74	79	87	90	98	166	74	27.62	70	1.42
PATERSON																
314140001 A01	25	42	44	52	65	70	81	83	87	93	115	149	80	28.98	76	1.44
PERTH AMBOY																
314220001 A01	24	27	31	49	68	78	83	95	98	106	111	120	79	28.50	73	1.57
TRENTON																
315420001 A01	24	41	47	50	60	63	66	72	88	103	119	147	77	29.19	72	1.44
NEW MEXICO																
ALBUQUERQUE																
320040001 A01	26	30	47	59	54	68	71	88	94	101	133	209	83	39.44	75	1.56
320040001 P01	26	39	45	59	61	65	79	90	107	119	157	164	89	37.52	82	1.52
320C40004 A01	45	12	34	45	49	52	57	62	78	88	107	185	67	33.73	60	1.65
320040005 P01	52	14	42	61	76	94	103	111	113	126	162	231	101	47.44	85	1.74
320040006 P01	51	9	20	23	30	33	35	41	43	52	61	85	38	16.45	34	1.62
BERNALILLO CO																
320140001 A01	52	13	31	42	46	55	64	83	98	110	135	242	76	42.01	65	1.83
320140002 P01	47	16	27	34	47	53	62	78	83	95	113	207	70	37.52	60	1.74
320140011 A01	50	34	47	54	69	81	95	108	140	172	220	574	125	94.58	102	1.86
320140021 P01	51	11	25	31	35	39	41	46	54	64	77	196	50	31.64	44	1.65
320140031 P01	52	4	7	11	12	13	15	19	23	25	33	101	20	15.50	16	1.91
NEW YORK																
ALBANY																
330C40001 A01	25	26	31	44	57	64	70	84	97	103	131	174	79	37.57	70	1.66
330040001 P01	57	15	29	38	44	50	67	79	90	116	141	182	75	43.62	64	1.81
330040002 P01	56	37	62	76	83	99	110	117	131	153	203	286	117	50.80	107	1.54
AMSTERDAM																
330160001 P01	49	19	31	39	44	49	59	62	70	78	92	390	66	52.80	57	1.63
BABYLON																
330280001 P01	55	17	29	36	48	51	57	62	74	86	94	291	67	44.43	58	1.68
BINGHAMTON																
330480002 P01	59	17	45	58	63	75	79	81	89	103	108	180	80	26.91	76	1.40
330480003 P01	58	24	36	47	57	68	71	74	84	95	123	236	77	36.74	69	1.56
BROOME CO																
330640001 P01	59	11	25	31	34	39	45	51	54	63	81	337	53	43.75	45	1.70
BUFFALO																
330660001 A01	24	47	54	63	74	80	85	89	94	110	132	174	90	30.81	85	1.39
330660001 P01	58	29	45	59	66	74	87	95	101	113	152	263	92	43.90	83	1.58
330660002 P01	58	23	44	55	67	77	82	86	99	108	160	493	97	71.34	83	1.67
330660003 P01	53	29	78	100	139	170	193	241	270	310	408	978	245	196.36	193	2.02
[illegible]																
331920001 P01	59	31	47	59	88	107	119	129	144	160	200	407	125	73.05	108	1.75
CHEMUNG CO																
331060002 P01	61	16	24	31	35	40	45	53	56	66	85	123	50	23.74	46	1.59
COHOES																
331180001 P01	58	11	22	27	33	42	53	65	82	97	124	220	65	42.74	53	1.94
COLONIE																
331220001 P01	51	23	33	40	50	53	66	69	80	84	111	146	67	29.45	61	1.55
COLUMBIA CO																
331220001 P01	61	11	19	22	26	29	33	36	43	48	68	116	39	22.14	34	1.64
331220002 P01	56	4	12	18	21	26	28	32	39	43	51	78	32	16.62	27	1.77
CORTLAND																
331380001 P01	42	11	21	30	31	36	41	61	73	91	115	177	61	41.76	49	1.96
DUTCHESS CO																
331620001 P01	57	10	21	24	25	28	30	37	45	60	73	128	41	24.07	35	1.69
EAST SYRACUSE																
331810001 P01	57	27	45	53	62	75	96	102	125	158	193	211	102	52.78	89	1.73
ELLENVILLE																
331960001 P01	57	16	28	43	54	61	72	82	95	113	132	177	77	37.78	67	1.78

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1969

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
NEW YORK																
ELMIRA																
33198000C1 F01	61	23	33	40	46	54	59	64	69	76	91	104	59	20.451	56	1.44
ENDICOTT																
33198000D1 F01	44	20	23	34	39	44	54	65	73	78	95	176	60	33.871	53	1.71
33198000D2 F01	59	8	31	43	49	57	61	70	85	108	138	276	75	45.041	64	1.80
ERIE CO																
33200C0011 F01	56	14	21	25	28	34	38	41	45	50	71	332	45	43.031	38	1.68
FREEPORT																
33210C001 F01	58	30	50	56	67	74	84	89	99	118	139	179	88	34.071	82	1.49
GARDEN CITY																
33236000C1 F01	59	23	33	43	48	55	62	65	71	80	95	130	63	23.621	58	1.48
GLEN COVE																
33246000C1 F01	56	33	58	81	90	101	114	124	141	160	200	244	121	51.791	110	1.58
GLENS FALLS																
33248090I F01	91	17	23	32	37	45	49	52	56	66	72	117	50	20.491	46	1.53
HEMPSTEAD																
33290000I1 F01	52	50	64	69	76	82	94	117	120	155	190	421	119	71.411	105	1.60
33293000I4 F01	51	25	53	64	78	88	97	111	137	164	214	289	116	63.321	100	1.74
HORSEHEADS																
33312CCC1 F01	60	18	25	31	43	48	53	62	71	81	100	147	61	30.501	54	1.66
HUDSON																
33314000I1 F01	60	22	25	32	36	41	42	51	60	76	86	187	55	29.531	49	1.59
ITHACA																
33330000I1 F01	57	21	27	33	37	43	46	55	59	64	88	150	52	24.571	48	1.53
JAMESTOWN																
33332C0C3 F01	48	12	17	24	31	38	46	57	68	77	86	137	53	30.521	44	1.86
JOHNSON CITY																
33338C001 F01	61	6	36	49	58	70	76	87	96	111	132	221	84	44.661	72	1.81
JOHNSTOWN																
33340I001 F01	54	11	17	22	28	31	35	42	45	61	68	108	41	21.561	36	1.68
KINGS POINT																
33348000I1 F01	60	24	41	48	63	76	85	92	101	111	134	222	87	40.861	78	1.62
KINGSTON																
33350300I1 F01	58	14	36	49	55	67	72	79	91	98	112	149	74	28.831	68	1.59
LACKAWANNA																
33352CCC1 F01	58	28	79	119	152	165	182	225	237	257	309	402	196	90.381	172	1.76
33352C0C2 F01	58	29	65	80	87	102	115	131	149	171	202	342	127	58.751	114	1.61
LEWISTON																
33376CCC1 F01	58	13	27	34	40	51	61	73	93	118	149	202	75	46.321	62	1.89
LOCKPORT																
33396C0C1 F01	47	16	24	42	46	56	63	72	75	94	113	148	67	33.411	58	1.75
33396C0C2 F01	56	18	26	36	47	55	66	73	81	94	116	166	68	33.441	60	1.72
33396C0C3 F01	58	21	35	46	55	61	66	70	93	100	123	178	74	34.901	66	1.62
33396C0C5 F01	58	21	35	46	55	61	66	70	93	100	123	178	74	34.901	66	1.62
33396C0C6 F01	56	6	17	21	30	37	43	47	58	68	92	151	49	33.101	39	2.00
MONROE CO																
33438C0G1 F01	61	16	27	39	49	59	68	83	90	107	123	226	76	44.161	64	1.87
33438C0G2 F01	61	10	19	21	38	48	51	56	64	79	106	173	59	35.681	49	1.87
MOUNT VERNON																
33448000I1 F01	61	26	42	47	55	61	71	80	90	101	114	169	76	31.211	70	1.50
NASSAU CO																
33452CCC1 F01	57	24	37	54	64	70	76	89	96	107	142	177	83	36.401	75	1.58
33452C0C2 F01	55	29	47	54	59	71	80	92	99	106	133	163	83	31.921	77	1.51
33452C0C4 F01	58	20	40	45	52	67	69	77	83	98	112	142	72	28.721	66	1.55
NEWBURGH																
33456000C1 F01	47	28	38	50	53	61	71	82	96	114	136	181	80	37.851	72	1.61
NEW PALTZ																
33460C001 F01	61	12	41	49	63	66	77	94	108	129	148	278	93	53.391	80	1.76
NEW ROCHELLE																
33462000C1 F01	56	36	52	61	74	78	86	95	104	119	146	157	91	32.411	85	1.44
NEW YORK CITY																
33466C0C1 A01	24	19	42	54	84	101	104	116	152	190	264	354	131	85.631	105	2.01
33468000I1 F01	57	49	61	79	84	103	108	122	128	140	154	224	111	37.371	105	1.41
NIAGARA CO																
33472C0C1 F01	58	10	17	25	34	37	44	56	64	80	93	142	53	30.791	44	1.92
33472C0C2 F01	59	11	20	37	46	49	56	71	81	101	115	164	66	36.531	56	1.87
NIAGARA FALLS																
33474CCC1 A01	26	33	40	57	71	94	107	116	126	153	180	204	106	50.221	93	1.72

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	PTA	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
NEW YORK																
NIAGARA FALLS																
334740001 F01	58	35	48	62	74	90	95	113	123	133	165	365	107	56.71	96	1.61
33474CQC7 F01	61	45	99	208	215	236	281	302	325	382	634	774	312	173.51	267	1.81
NORTH TARRYTOWN																
334880001 F01	61	16	28	35	40	46	55	62	71	88	107	218	62	34.57	54	1.69
NORTH TONAWANDA																
3349CCCC1 F01	59	26	57	83	89	101	114	124	135	147	178	287	118	51.42	107	1.60
334900032 F01	59	16	29	50	60	68	77	88	94	108	128	244	83	45.67	71	1.80
334900004 F01	57	36	84	139	160	178	203	246	311	350	451	1348	256	197.81	208	1.91
3349CCCC5 F01	61	31	43	67	77	86	92	102	122	132	141	233	99	42.99	90	1.58
OGDENSBURG																
335000001 F01	43	12	25	31	39	43	48	54	59	77	91	126	54	26.98	48	1.69
ONONDAGA CC																
335100001 F01	58	11	18	22	27	30	40	49	57	66	82	127	46	27.18	39	1.81
335100002 F01	49	22	33	40	48	60	72	81	114	148	194	361	97	74.94	76	2.00
3351CCCC3 F01	51	18	41	50	63	73	81	100	125	163	189	225	102	58.20	86	1.83
OSSINING																
335200001 F01	58	13	30	41	47	54	61	71	79	94	101	126	64	26.20	58	1.59
PEEKSKILL																
335360001 F01	61	22	34	40	51	60	68	81	93	111	134	180	77	39.06	68	1.70
PLATTSBURGH																
335440002 F01	54	8	16	18	21	24	29	37	42	49	65	85	35	19.10	30	1.73
PORT CHESTER																
335520001 F01	53	28	39	46	54	57	63	74	79	91	101	163	70	27.80	65	1.49
POUGHKEEPSIE																
335620001 F01	60	6	28	35	38	41	45	49	62	89	120	145	59	34.63	50	1.83
RENSSELAER																
3356BCCC1 F01	46	19	25	39	46	53	57	64	99	122	181	210	81	54.35	66	1.92
RENSSELAER CC																
335700001 F01	59	16	31	46	54	62	70	82	89	99	117	167	74	33.33	66	1.66
3357CCC11 F01	57	1	10	13	15	19	23	27	34	49	58	141	30	23.39	23	2.22
ROCHESTER																
335760001 A01	26	47	73	86	95	104	106	117	125	129	190	213	116	41.19	109	1.42
33576CCC1 F01	59	30	49	65	73	91	102	111	127	156	181	244	110	50.04	99	1.61
335760002 F01	61	18	40	58	69	75	79	88	94	104	126	156	83	33.42	75	1.62
335760CC2 F01	59	21	42	63	70	94	101	115	131	161	173	227	108	50.49	95	1.70
ROCKLAND CC																
335780001 F01	61	19	26	32	35	41	47	57	64	84	95	117	55	26.35	49	1.61
ROCKVILLE CENTRE																
3358CCCC1 F01	57	40	66	78	90	92	110	119	139	172	188	273	120	49.62	111	1.50
ROME																
335820301 F01	58	12	32	36	40	44	52	56	70	89	122	221	64	40.25	55	1.74
RYE																
335910001 F01	59	29	42	51	59	63	65	70	75	81	104	175	71	26.92	67	1.41
SARANAC LAKE																
335980001 F01	56	11	16	17	22	27	33	41	50	71	84	111	42	26.27	34	1.87
SAUGERTIES																
335990101 F01	50	17	35	44	66	77	84	93	110	119	156	200	91	46.16	78	1.81
SCHENECTADY																
33602CUC1 F01	60	5	28	38	46	59	64	68	82	102	113	142	68	32.77	59	1.81
336020002 F01	60	14	29	33	42	54	62	69	89	106	142	164	73	40.99	62	1.80
SCHENECTADY CO																
336C4CCC1 F01	53	10	15	17	19	22	29	33	35	42	63	99	32	19.02	28	1.70
336040011 F01	60	10	22	27	35	38	44	49	56	65	73	117	48	22.90	42	1.64
SCHOHARIE CO																
336C6CCC2 F01	57	9	26	28	31	37	44	49	57	66	80	102	48	21.69	43	1.61
SLCAA																
336280001 F01	57	11	38	57	68	84	94	106	116	128	169	276	101	56.68	87	1.80
SELVAY																
336320001 F01	49	23	29	32	36	39	53	55	67	80	114	207	61	38.69	52	1.69
SOUTHAMPTON																
33634CCC1 F01	60	13	25	28	32	34	38	41	44	50	56	157	42	23.79	38	1.54
SUFFERN																
336560001 F01	58	17	23	30	38	44	48	59	66	86	98	126	56	27.49	49	1.69
SUFFOLK CC																
336580001 F01	55	20	32	36	40	43	47	53	65	76	92	217	57	30.75	51	1.54
3365P0002 F01	56	14	23	32	41	52	60	74	89	125	266	492	100	108.58	68	2.32

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

YEAR : 1969 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
NEW YORK																
SUFFOLK CO																
336560011 F01	60	15	27	32	36	42	51	56	61	72	81	117	52	23.11	47	1.59
SYRACUSE																
336620001 A01	25	28	56	68	78	93	97	104	126	168	196	312	116	63.03	102	1.70
336620001 F01	59	36	56	68	78	100	114	126	150	170	188	320	124	64.51	109	1.69
336620002 F01	56	22	43	59	68	79	94	116	130	139	156	228	101	46.82	89	1.68
336620003 F01	55	35	53	65	80	90	104	116	134	154	191	252	114	52.80	103	1.60
336620004 F01	56	21	35	47	53	65	84	93	105	136	160	301	91	52.30	78	1.76
336620005 F01	56	23	40	48	56	62	81	91	107	149	175	294	95	56.64	81	1.77
TONAWANDA																
336760002 F01	57	26	54	81	90	102	107	128	140	156	170	284	116	47.91	106	1.61
TROY																
336780002 F01	54	14	21	26	34	37	41	50	56	67	89	239	54	41.78	45	1.81
ULSTER CO																
336840002 F01	58	30	42	50	60	68	76	100	111	144	199	394	108	81.93	88	1.86
UTICA																
336880001 A01	26	24	32	42	44	68	83	88	95	104	143	159	80	40.74	72	1.74
336880001 F01	60	28	37	44	58	69	78	90	106	124	143	335	91	54.46	78	1.72
WATERTOWN																
337160001 F01	52	17	23	31	36	39	43	52	57	66	103	125	52	27.15	46	1.63
WEBSTER																
337260001 F01	61	10	20	30	40	44	48	53	62	65	75	177	52	31.12	45	1.76
WESTCHESTER CO																
337320003 F01	60	12	15	22	26	28	34	38	47	63	72	134	42	25.29	36	1.77
WHITE PLAINS																
337480001 F01	58	30	48	52	62	71	77	88	91	108	135	187	83	32.98	77	1.48
NORTH CAROLINA																
CHARLOTTE																
340700001 A01	24	29	56	64	76	81	90	115	117	155	212	215	108	52.73	95	1.68
DURHAM																
341160001 A01	26	54	57	61	65	72	75	80	97	103	121	204	85	31.73	81	1.36
GREENSBORO																
341740001 A01	24	62	67	72	87	89	91	99	103	138	151	150	103	33.93	98	1.36
WINSTON-SALEM																
344460002 A01	25	35	43	60	85	89	102	103	116	128	166	234	106	45.27	95	1.61
NORTH DAKOTA																
BISMARCK																
350100001 A01	25	20	34	43	48	60	70	80	90	112	139	243	82	50.07	70	1.80
OHIO																
AKRON																
360060001 A01	25	31	42	48	73	91	109	112	133	138	167	224	105	49.86	93	1.72
CANTON																
361000001 A01	26	40	58	69	77	87	97	103	109	118	149	185	99	36.70	93	1.45
CINCINNATI																
361220001 A01	26	53	62	75	82	86	93	108	133	159	182	385	117	67.59	104	1.57
361220002 A01	29	12	29	37	43	65	70	89	98	108	122	145	74	36.21	64	1.82
361220003 A10	155	28	62	74	83	92	103	114	129	153	183	288	114	50.06	104	1.54
CLEVELAND																
361360001 A01	25	44	64	67	77	94	115	130	141	158	226	389	128	75.08	112	1.69
COLUMBUS																
361460001 A01	25	37	51	67	76	85	102	114	129	135	149	222	106	43.02	97	1.55
DAYTON																
361660001 A01	25	44	53	62	77	84	91	100	112	131	168	188	101	43.23	93	1.53
TOLEDO																
368600001 A01	26	27	40	56	64	68	70	73	89	96	126	135	76	27.56	71	1.48
YOUNGSTOWN																
367760001 A01	26	39	57	64	72	95	100	112	138	203	268	302	132	78.94	112	1.78
OKLAHOMA																
DUNCAN																
370900001 F01	35	26	30	35	38	42	51	60	63	67	69	208	54	29.27	50	1.48
MUSKOGEE																
371990102 F01	41	14	25	32	40	43	45	49	56	64	78	140	50	22.43	45	1.57
OKLAHOMA CITY																
372200001 A01	25	18	35	37	50	61	73	81	87	92	106	137	70	26.52	64	1.62
TULSA																
373000001 A01	26	25	30	33	39	44	56	55	73	82	122	233	68	48.71	57	1.76
373000001 H01	165	16	34	42	49	53	61	66	75	84	110	282	71	45.65	61	1.68

Table 2-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

YEAR : 1969 — METHOD: HI-VOL/GRAVIMETRIC — 04/14/72

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	PCT	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
OKLAHOMA																
TULSA																
373000002 P01	181	21	56	67	84	96	106	124	141	163	197	444	121	64.81	107	1.66
373000003 P01	173	23	51	68	80	88	98	106	116	130	151	377	102	45.89	93	1.56
373000007 H01	171	25	55	67	82	93	103	115	129	157	183	376	115	58.58	103	1.62
373000008 P01	164	25	47	58	69	74	81	90	99	113	138	256	88	36.77	81	1.50
OREGON																
MEDFORD																
381160001 A01	23	46	98	59	76	96	104	114	128	138	182	321	116	64.05	103	1.63
PORTLAND																
381460001 A01	25	18	27	42	61	70	76	78	88	112	172	200	84	48.01	72	1.82
PENNSYLVANIA																
ALLENTOWN																
390120001 A01	25	38	64	69	81	91	99	104	112	129	165	183	103	37.031	96	1.45
ALTOONA																
390140001 A01	23	19	46	68	73	82	91	97	112	142	158	224	100	51.621	86	1.83
BETHLEHEM																
390780002 A01	25	42	56	60	67	74	84	88	97	114	135	174	88	31.881	83	1.42
CLEARFIELD CO																
391820001 A02	26	8	16	18	21	29	33	48	56	67	101	130	47	32.991	37	2.07
ERIE																
393660002 A01	25	10	26	38	48	59	65	76	102	124	160	211	81	52.771	65	2.09
HARRISBURG																
393980001 A01	24	21	44	49	54	60	68	75	83	91	98	101	68	22.161	63	1.48
HAZLETON																
393960001 A01	23	33	43	59	67	83	88	104	118	166	228	402	118	85.651	97	1.86
INDIANA CO																
394240001 A02	26	10	25	30	41	49	56	64	68	83	88	94	56	23.441	51	1.61
JOHNSTOWN																
394660001 A01	24	56	66	73	85	87	109	118	122	204	221	228	120	55.611	109	1.55
PHILADELPHIA																
397140001 A01	26	88	94	111	117	121	122	136	146	147	164	182	129	25.601	127	1.22
397140002 A10	164	37	66	81	94	106	118	130	147	161	186	386	129	61.421	116	1.56
PITTSBURGH																
397260001 A01	26	40	73	91	104	128	147	192	203	231	283	366	165	82.381	144	1.73
READING																
397620001 A01	26	26	52	69	74	85	90	95	107	111	191	226	99	46.181	91	1.56
SCRANTON																
398040001 A01	26	59	91	116	145	172	193	238	269	338	402	472	226	119.721	195	1.77
WARMINSTER																
399140001 A01	25	16	20	27	35	39	47	63	68	70	76	83	50	21.991	44	1.69
WEST CHESTER																
399280001 A01	26	25	35	51	52	63	66	71	86	92	106	137	70	26.271	65	1.49
WILKES-BARRE																
399430001 A01	25	45	54	57	62	80	91	101	113	122	148	233	99	46.241	90	1.54
YORK																
3995630C1 A01	26	53	57	68	80	91	108	118	139	143	168	186	109	40.151	102	1.48
PUERTO RICO																
BAYAMON																
4C0380002 AC1	25	28	62	65	71	74	79	85	99	101	133	267	93	46.291	85	1.51
CATANO																
400560002 AC1	26	92	96	122	128	136	144	167	196	209	291	453	174	81.911	160	1.48
GUAYANILLA																
401C80002 A01	26	25	32	34	37	41	44	47	50	56	62	68	45	12.141	43	1.32
PONCE																
4C192CCC2 AC1	23	57	60	63	71	77	79	87	89	96	102	160	83	22.121	81	1.27
SAN JUAN																
402140001 AC1	26	49	60	69	70	71	73	80	87	93	104	121	79	16.581	77	1.23
RHODE ISLAND																
EAST PROVIDENCE																
41C12CCC1 A01	25	32	35	50	54	57	63	69	75	79	88	100	65	18.241	62	1.36
PROVIDENCE																
410300001 AC1	26	35	42	53	70	73	74	89	97	107	120	128	90	26.691	76	1.44
SOUTH CAROLINA																
COLUMBIA																
42076CCC1 A01	22	23	26	29	35	37	41	43	46	53	56	59	41	11.261	39	1.34
GREENVILLE																
421180001 A01	25	36	43	49	69	77	84	86	95	98	112	152	81	27.781	76	1.44

Table 2-1 (continued) SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

YEAR : 1969 METHOD: HI-VOL/GRAVIMETRIC 04/14/72

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
TENNESSEE																
CHATTANOOGA																
440380001 A01	26	60	69	76	86	91	97	121	137	141	164	202	111	39.24	105	1.41
KNOXVILLE																
441740001 A01	24	38	49	54	68	71	79	102	105	141	152	168	93	39.81	85	1.55
441740002 A01	26	43	58	72	78	95	108	123	153	163	194	266	119	54.94	108	1.60
MEMPHIS																
442340001 A01	26	28	44	46	52	62	68	71	91	113	139	194	76	34.99	69	1.58
NASHVILLE																
442540001 A01	25	41	48	54	64	70	93	99	115	129	163	197	98	42.99	89	1.56
TEXAS																
AUSTIN																
450220002 F01	24	13	33	38	41	48	49	58	62	75	76	103	53	20.03	49	1.56
BAYTOWN																
450320001 F01	26	3	9	19	29	34	36	39	44	45	65	84	37	20.03	30	2.13
450320002 F01	26	20	27	46	53	64	65	73	80	87	92	126	66	25.41	61	1.58
BEAUMONT																
450330001 F01	23	16	21	38	49	56	67	68	76	85	87	95	61	23.61	55	1.66
CHAMBERS CO																
450860001 F01	25	13	23	26	29	29	30	31	38	42	59	80	36	15.45	33	1.50
450860002 F01	26	17	24	30	33	40	44	54	57	65	84	94	49	21.43	44	1.60
450860003 F01	23	4	23	25	27	35	37	40	53	59	62	120	42	23.69	38	1.93
CORPUS CHRISTI																
451150001 F01	26	18	44	48	52	53	55	59	65	72	94	141	63	27.33	58	1.52
451150003 F01	23	24	32	33	38	41	44	44	49	63	79	101	49	15.85	46	1.45
DALLAS																
451310002 A01	26	35	40	57	57	69	77	87	93	103	117	275	86	46.22	76	1.55
FORT WORTH																
451880001 A01	25	30	46	62	68	74	77	82	102	115	128	192	88	38.66	81	1.53
GALVESTON																
451940001 F01	26	27	32	34	42	44	47	67	75	87	93	158	62	32.98	55	1.62
HARLINGEN																
452320001 F01	26	16	30	35	38	41	52	58	76	84	114	171	61	36.00	53	1.74
HOUSTON																
452560001 A01	25	47	61	62	74	79	89	92	110	112	117	128	88	23.10	85	1.32
LAREDO																
453140001 F01	22	37	66	90	123	129	132	157	163	167	287	486	164	116.35	136	1.84
LUBBOCK																
453340001 F01	25	13	21	38	45	57	70	80	99	109	136	319	82	63.73	64	2.12
ODESSA																
453910001 F01	26	16	25	45	57	61	71	85	92	98	123	252	78	47.00	66	1.82
PASADENA																
454060002 A01	24	22	53	62	65	66	75	84	92	105	129	145	83	30.19	77	1.49
SAN ANTONIO																
454570001 A01	26	26	33	36	38	40	43	46	57	69	89	142	53	25.87	49	1.50
TEXARKANA																
455160001 F01	25	24	34	34	38	45	57	63	76	82	90	99	59	23.97	54	1.54
TEXAS CITY																
455170001 F01	26	20	40	44	45	54	57	62	72	81	102	140	64	27.64	59	1.54
WACO																
455370001 F01	26	33	42	49	56	65	72	73	86	91	124	165	76	30.85	70	1.49
WICHITA FALLS																
455550001 F01	24	17	32	47	53	62	66	68	75	110	118	176	74	39.82	65	1.74
UTAH																
OGDEN																
460680001 A01	24	29	48	52	67	71	76	84	91	105	140	177	85	37.26	78	1.53
SALT LAKE CITY																
460920001 A01	26	32	44	52	59	62	73	84	104	119	152	299	90	56.56	78	1.68
VERMONT																
BURLINGTON																
470140001 A01	23	18	25	27	29	42	43	45	53	63	69	102	46	19.89	42	1.53
VIRGINIA																
DANVILLE																
480920001 A01	25	36	47	51	57	57	71	75	94	94	120	124	75	26.97	70	1.44
HAMPTON																
481440001 A01	26	21	25	33	36	39	41	48	52	62	74	104	48	21.06	44	1.51

Table 2-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS for 1969

04/14/72

YEAR : 1969 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
VIRGINIA																
LYNCHBURG																
48184C0C1 A01	25	42	60	76	77	86	89	90	94	112	143	161	93	29.13	88	1.37
NEWPORT NEWS																
482120001 A01	24	20	40	44	56	58	68	7C	74	91	102	134	67	26.43	62	1.55
NORFOLK																
48214C0C1 A01	26	44	61	66	71	80	82	88	103	109	135	211	94	38.75	88	1.42
PORTSMOUTH																
482440001 A01	26	37	5C	61	65	66	72	88	92	103	144	148	83	30.77	78	1.43
RICHMOND																
482660002 A01	25	51	53	59	66	71	85	89	92	96	119	134	83	23.82	80	1.33
ROANOKE																
4827CC0C1 A01	26	48	53	60	67	79	85	94	105	115	136	164	91	32.70	85	1.43
WASHINGTON																
AUBURN																
49010C001 I01	79	10	18	26	33	41	54	67	82	99	117	374	67	59.57	51	2.11
BELLEVUE																
490120001 I01	86	12	20	26	32	40	52	57	69	79	82	164	54	29.75	46	1.78
BREMERTON																
49C180001 F01	88	8	21	26	29	33	38	43	47	64	77	179	45	25.70	39	1.70
EVERETT																
49C640CC1 I01	41	13	19	23	27	34	40	44	49	61	73	102	43	21.41	38	1.65
490640002 F01	98	23	31	39	47	53	56	62	7C	81	111	156	63	29.21	57	1.56
KING CO																
49C990001 I01	80	3	4	7	9	11	12	16	23	33	47	78	21	19.50	14	2.39
MARYSVILLE																
491200C01 I01	81	9	23	31	38	50	59	79	92	112	129	177	70	42.44	57	2.00
OLYMPIA																
491400001 F01	91	6	12	23	30	36	39	49	58	7C	95	212	50	35.03	39	2.05
PIERCE CO																
49156CCC1 I01	92	10	27	41	52	66	72	81	91	110	141	233	78	44.45	65	1.93
RENTON																
491760001 I01	87	11	20	24	31	39	49	55	61	80	106	149	55	33.21	45	1.87
SEATTLE																
491840001 A01	26	16	35	38	38	46	49	55	68	86	103	17C	62	35.47	54	1.67
491840002 F01	75	17	29	34	44	55	63	7C	82	89	124	323	71	47.38	60	1.78
491840CC5 I01	90	36	51	60	86	95	111	126	144	170	196	472	125	73.29	1CE	1.72
491840006 I01	89	13	31	39	47	58	61	67	81	96	116	214	69	36.51	61	1.68
491840007 I01	98	15	32	37	43	47	49	54	61	74	95	202	59	32.29	53	1.59
49184CCC9 I01	98	7	35	39	43	50	57	64	70	76	94	177	62	28.03	56	1.58
SPOKANE																
492040CC1 A01	25	19	36	49	57	61	7C	79	103	103	142	403	90	74.35	74	1.86
49204CCC1 F01	98	21	35	56	64	74	90	107	137	156	196	405	112	76.72	92	1.87
TACOMA																
492140CC1 A01	26	26	37	40	41	61	64	76	88	95	181	251	82	57.65	69	1.80
49214CCC1 F01	81	19	33	46	50	63	72	80	90	123	175	271	86	53.27	73	1.79
492140001 I01	51	16	22	31	40	42	53	69	80	92	115	223	66	42.83	54	1.86
492140002 I01	72	11	19	3C	37	45	53	62	71	84	114	157	60	35.58	50	1.94
492140003 I01	90	10	19	25	31	42	50	60	70	80	98	198	56	34.84	46	1.94
492140004 I01	83	19	44	62	69	83	87	101	117	137	159	240	98	46.88	87	1.67
VANCOUVER																
49222CCC1 F01	87	2C	35	46	52	65	71	77	90	106	125	165	76	33.14	69	1.57
WENATCHEE																
492340001 F01	75	21	32	38	48	56	64	76	84	106	139	213	77	45.43	66	1.75
WEST VIRGINIA																
CHARLESTON																
5CC28CCC1 A01	25	56	88	109	131	133	163	187	212	369	433	493	213	133.07	177	1.86
WISCONSIN																
EAU CLAIRE																
510640002 A01	23	14	23	28	33	38	41	45	58	59	72	99	45	20.39	41	1.60
KENOSHA																
51154CCC1 A01	26	29	35	41	51	55	63	75	79	91	166	182	78	45.63	67	1.70
MADISON																
511860001 A01	25	27	35	39	43	49	56	6C	69	72	117	268	68	50.69	59	1.67
MILWAUKEE																
5122C0CC1 A01	26	51	59	75	78	86	101	123	136	174	259	296	124	68.78	110	1.65
RACINE																
512880001 A01	24	13	13	30	48	52	55	6C	63	92	110	127	60	32.94	50	1.99
SUPERIOR																
513480001 A01	26	29	37	50	55	56	59	7C	78	79	105	133	67	25.17	63	1.45

Table 2-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1969

04/14/72

YEAR : 1969 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
WYOMING																
CASPER																
520120001 A01	25	23	27	39	46	50	59	70	91	100	111	163	69	36.27	61	1.71
CHEYENNE																
520140001 A01	25	7	16	18	20	22	22	27	38	42	68	82	32	19.69	27	1.76

INPUT RECORDS PROCESSED: 1870

OUTPUT RECORDS PROCESSED: 1870

MAXIMUM INPUT RECORD LENGTH: 133

MAXIMUM OUTPUT RECORD LENGTH: 133

MINIMUM INPUT RECORD LENGTH: 18

MINIMUM OUTPUT RECORD LENGTH: 18

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Table 2-2. SUSPENDED PARTICULATE MATTER, NONURBAN FREQUENCY DISTRIBUTIONS FOR 1969

06/19/72

YEAR : 1969

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
ARIZONA GRAND CANYON NAT P 030370001 A03	25	6	7	8	12	13	15	20	23	26	30	92	17	8.69	15	1.75
ARKANSAS MONTGOMERY CO 041760001 A03	24	10	12	13	18	23	24	27	31	37	43	68	28	16.88	24	1.70
CALIFORNIA HUMBOLDT CC 053300001 A03	26	21	23	27	28	32	33	43	51	54	65	192	45	32.14	39	1.63
COLORADO MESA VERDE NAT PARI 061530002 A03	26	4	7	7	7	12	14	17	21	26	37	50	18	12.47	14	2.33
IDAHO BUTTE CO 130340001 A03	24	1	3	6	7	7	8	11	13	14	15	22	7	5.40	8	2.13
INDIANA MONROE CO 152800001 A03	24	19	22	28	31	35	37	42	51	54	57	119	42	23.96	39	1.53
PARKE CO 153260001 A03	23	21	25	25	27	32	39	41	45	66	71	92	44	20.46	40	1.55
MAINE ACADIA NAT PARK 200010001 A03	26	5	10	12	13	15	15	20	26	34	38	42	21	10.77	18	1.71
MARYLAND CALVERT CO 210280001 A03	25	20	23	25	32	37	40	44	48	54	69	103	43	13.83	41	1.52
MISSOURI SHANNON CC 264480002 A03	24	9	10	15	18	22	24	31	32	49	61	130	33	22.51	26	1.94
MONTANA GLACIER NAT PARK 270570001 A03	26	2	4	8	9	9	9	12	15	29	37	56	15	12.[illegible]	11	2.22
NEBRASKA THOMAS CO 282480001 A03	26	6	9	11	12	13	14	17	20	25	39	45	19	11.52	16	1.69
NEVADA WHITE PINE CO 290560001 A03	23	5	6	8	8	10	12	13	15	23	23	32	13	6.78	12	1.65
NEW HAMPSHIRE COOS CC 330140001 A03	22	5	8	9	11	12	15	16	17	22	31	61	19	14.71	15	1.68
NEW YORK JEFFERSON CO 333340001 A03	25	11	13	18	23	24	30	31	36	44	71	91	36	21.21	29	1.77
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	23	14	19	29	31	49	71	78	95	112	174	234	78	59.66	58	2.25
OKLAHOMA CHEROKEE CO 370480001 A03	26	14	17	24	26	29	33	31	43	56	65	179	43	32.44	33	1.78
OREGON CURRY CO 386440001 A03	25	13	25	31	36	42	47	57	63	65	92	134	54	29.03	47	1.71
PENNSYLVANIA CLARION CO 391760001 A03	26	6	14	18	21	24	29	33	41	46	58	120	28	21.41	29	1.55
RHODE ISLAND WASHINGTON CO 410380002 A03	26	14	17	19	21	24	26	31	33	35	54	65	33	14.[illegible]	28	1.51
SOUTH CAROLINA RICHLAND CO 421900001 A03	25	21	26	29	37	40	42	44	47	51	61	76	42	12.47	41	1.37
SOUTH DAKOTA BLACK HILLS NAT FCI 430110001 A03	26	3	5	7	9	12	11	13	15	17	41	94	19	16.55	11	1.93
TENNESSEE CUMBERLAND CO 440690001 A03	22	6	13	14	16	23	29	37	38	52	55	91	33	21.47	27	1.97

Table 2-2 (continued) SUSPENDED PARTICULATE MATTER, NONURBAN FREQUENCY DISTRIBUTIONS FOR 1969

POLLUTANT : 11101 - PARTICULATE 04/19/72

YEAR : 1969 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS																
MATAGORDA CO																
453530001 A03	26	11	15	21	23	24	25	31	35	38	48	58	30	12.32	27	1.53
VERMONT																
ORANGE CO																
470360001 A03	26	9	16	21	24	28	29	30	32	38	45	63	29	11.62	27	1.53
VIRGINIA																
SHENANDOAH NAT PAR																
482890001 A03	26	14	18	24	27	31	32	35	37	38	52	75	34	13.15	32	1.46
WYTHE CO																
483440001 A03	25	16	19	20	23	24	29	32	39	50	62	142	38	26.27	32	1.68
WISCONSIN																
OCEA CO																
51C780CC1 A03	25	4	5	8	11	11	14	19	24	24	33	35	17	9.28	14	1.95
YELLOWSTONE NAT PA																
520860001 A03	23	2	3	4	4	5	5	6	11	14	19	23	6	5.84	7	2.33

SECTION 3. URBAN AND NONURBAN SUSPENDED PARTICULATE MATTER, 1970

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Table 3-1. SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION , %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ALABAMA																
GADSDEN																
011480001 A01	23	29	34	39	52	70	74	82	91	104	141	194	80	41.43	71	1.68
HUNTSVILLE																
011860001 A01	26	26	29	41	53	59	59	76	87	94	100	117	66	25.74	61	1.54
MONTGOMERY																
012460001 A01	25	33	39	53	56	63	82	102	109	125	146	256	91	50.09	80	1.69
ALASKA																
ANCHORAGE																
020040003 A01	24	13	28	48	56	59	69	85	95	146	162	258	88	57.47	72	2.00
ARIZONA																
MARICOPA CO																
030440001 A01	26	18	29	46	49	57	64	71	76	78	91	111	63	22.88	58	1.54
TUCSON																
030860001 A01	26	54	61	70	76	86	92	104	114	119	159	229	104	43.72	96	1.46
ARKANSAS																
LITTLE ROCK																
041440001 A01	24	26	34	37	48	54	66	80	83	94	106	166	71	33.60	64	1.60
WEST MEMPHIS																
042740001 A01	24	33	41	47	69	83	92	96	104	116	132	155	88	33.38	81	1.53
CALIFORNIA																
ANAHEIM																
050230031 A01	26	61	84	97	99	103	114	119	139	140	147	224	118	32.30	114	1.30
BURBANK																
050900002 A01	25	45	69	79	104	108	130	136	159	162	182	398	136	71.09	123	1.60
FRESNO																
052830032 A01	23	34	50	56	65	102	102	122	134	141	164	282	110	55.85	97	1.68
GLENDALE																
052940001 A01	26	50	58	66	71	80	88	97	111	114	126	127	90	24.21	87	1.32
LONG BEACH																
054190001 A01	26	27	56	71	86	96	102	109	120	126	148	187	102	37.09	95	1.52
LOS ANGELES																
054190031 A01	25	47	80	105	110	115	133	139	147	158	187	203	132	38.90	125	1.40
OAKLAND																
055300001 A01	26	31	40	47	50	56	59	64	78	88	128	146	69	30.94	64	1.50
ONTARIO																
055340001 A01	25	33	54	66	86	100	127	141	166	184	227	271	133	67.19	116	1.75
PASADENA																
055760002 A01	23	60	78	81	86	90	103	108	113	125	216	399	127	85.25	111	1.61
RIVERSIDE																
056430001 A01	25	44	53	64	84	86	99	151	184	202	267	350	140	82.37	119	1.80
SACRAMENTO																
056580031 A01	26	19	30	33	45	56	62	64	72	80	91	399	71	70.21	57	1.78
SAN BERNARDINO																
056680031 A01	22	50	58	63	75	86	108	131	146	224	314	330	142	92.47	118	1.85
SAN DIEGO																
056830001 A01	24	39	45	48	59	61	67	75	81	108	129	252	82	46.17	73	1.56
SAN FRANCISCO																
056860001 A01	25	33	34	39	42	43	46	47	61	65	78	98	52	16.75	50	1.35
SANTA ANA																
057180031 A01	26	64	79	100	102	110	123	142	161	168	202	321	136	55.32	127	1.46
TORRANCE																
058260001 A01	26	38	48	60	71	79	84	98	103	111	138	257	94	46.17	86	1.54
COLORADO																
ADAMS CO																
060020001 F01	89	22	44	62	80	90	106	116	129	139	154	260	106	46.00	95	1.63
ALAMOSA																
060040001 F01	106	24	39	45	54	61	67	74	81	85	104	345	73	40.05	66	1.53
ARAPAHOE CO																
060080001 F01	93	9	21	29	32	38	44	50	56	64	78	167	48	25.67	42	1.69
ARVADA																
060120001 F01	92	35	62	84	93	97	107	120	136	152	194	338	120	51.49	110	1.51
AURORA																
060140001 F01	92	23	38	48	60	65	75	85	93	109	129	180	81	36.15	73	1.61
BOULDER																
060200001 F01	76	20	35	44	53	59	62	65	81	90	120	177	70	33.30	63	1.58

Table 3-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION , %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
COLORADO																
BRIGHTON																
060240001 FO1	77	29	54	63	71	79	94	106	114	123	139	187	94	33.86	88	1.49
CANON CITY																
060300031 FO1	111	9	23	33	37	45	49	53	63	75	93	200	56	31.45	49	1.68
COLORADO SPRINGS																
060380003 FO1	109	29	43	56	68	77	86	95	100	124	142	277	93	44.98	83	1.59
DENVER																
060580001 A01	26	47	77	88	90	104	123	139	145	162	238	271	133	58.30	122	1.53
060580001 F01	90	40	66	74	86	102	109	120	130	153	181	255	117	47.06	108	1.50
060580002 A10	161	32	99	119	130	146	169	197	220	260	335	767	199	113.90	173	1.69
060580003 F01	92	54	68	81	96	107	117	139	150	175	206	409	133	63.67	121	1.54
060580004 F01	92	45	84	94	107	118	135	155	178	199	217	410	148	64.94	135	1.54
060580006 F01	94	23	45	57	62	74	82	89	95	117	145	213	87	38.10	80	1.55
060580007 F01	110	28	40	49	55	61	67	73	81	88	114	189	73	30.78	67	1.49
060580008 F01	94	31	44	54	68	75	87	101	109	122	141	269	93	43.76	84	1.59
DOUGLAS CO																
060660001 F01	98	24	34	40	45	50	56	61	72	79	94	179	61	25.15	56	1.48
DURANGO																
060680003 F01	73	23	43	55	61	67	72	80	88	108	123	208	82	36.47	75	1.52
EDGEWATER																
060720001 F01	89	22	44	62	72	82	93	101	114	130	152	270	98	45.60	88	1.61
ENGLEWOOD																
060780001 F01	97	33	52	67	74	83	92	112	121	133	175	353	105	50.57	95	1.55
FLORENCE																
060800001 F01	78	29	50	59	65	72	78	89	96	105	132	410	88	47.98	80	1.50
FORT COLLINS																
060820001 F01	92	13	48	67	77	83	92	104	118	128	148	241	99	45.10	88	1.69
GARFIELD CO																
060880001 F01	106	33	63	77	92	103	113	124	134	172	205	385	128	64.91	114	1.59
060880002 F01	86	23	39	52	60	71	75	89	102	121	153	303	89	49.59	78	1.68
GLENWOOD SPRINGS																
060920001 F01	112	14	28	35	44	50	55	59	67	78	93	152	59	27.28	53	1.59
GOLDEN																
060940001 F01	96	16	32	39	47	53	61	72	78	83	104	244	67	34.56	60	1.62
GRAND JUNCTION																
060980007 F01	104	16	41	47	55	59	71	75	87	103	122	203	76	34.78	69	1.58
GREELEY																
061000003 F01	104	19	42	53	60	70	77	86	100	115	132	277	84	40.64	75	1.62
061000004 F01	88	15	39	49	72	82	95	106	126	154	194	315	107	61.27	90	1.84
JEFFERSON CO																
061140001 F01	97	12	25	29	34	43	50	56	59	68	86	205	54	30.45	47	1.67
LA JUNTA																
061220001 F01	107	17	28	37	40	45	52	56	62	73	92	187	57	30.00	52	1.57
LAKEWOOD																
061260001 F01	95	15	30	42	48	54	60	70	78	87	98	211	68	34.26	60	1.64
LARIMER CO																
061320002 F01	71	22	30	35	39	43	50	57	69	73	89	147	56	24.96	51	1.53
LITTLETON																
061420001 F01	92	36	52	67	75	85	97	107	123	133	156	322	104	47.96	95	1.55
LONGMONT																
061460001 F01	83	16	50	62	70	80	88	102	127	138	183	354	106	60.83	92	1.75
LOVELAND																
061480001 F01	101	16	44	51	57	69	73	84	94	107	142	281	85	47.31	75	1.67
MANITOU SPRINGS																
061500001 F01	104	20	37	47	54	60	65	76	83	90	105	226	70	31.55	64	1.54
MESA CO																
061520001 F01	106	15	33	43	58	72	78	87	102	125	150	199	85	43.55	74	1.74
061520002 F01	96	8	17	20	24	29	32	38	46	51	69	185	39	25.63	33	1.74
MONTROSE																
061620001 F01	95	12	45	51	60	69	79	88	95	108	144	194	84	37.28	75	1.65
PUEBLO																
061820001 F01	100	55	77	98	107	123	138	150	164	197	245	324	149	62.30	137	1.51
061820003 F01	108	51	79	96	107	116	124	136	147	161	187	364	133	48.65	125	1.41
ROCKY FORD																
061900001 F01	109	14	33	42	45	52	60	66	74	85	98	195	66	33.36	59	1.59
STERLING																
062080001 F01	67	25	43	46	54	66	72	85	103	112	151	225	84	43.36	75	1.63

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION , % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
COLORADO																
TRINIDAD																
062160001 F01	114	22	50	60	67	78	89	96	103	113	142	205	90	35.59	83	1.51
WALSENBURG																
062180001 F01	102	21	55	63	70	77	86	104	125	140	170	505	111	74.77	95	1.71
WELD CO																
062220301 F01	103	12	54	64	69	79	87	98	103	117	144	281	94	42.18	85	1.61
062220002 F01	92	20	38	68	80	91	104	132	146	172	192	255	116	56.96	108	1.80
CONNECTICUT																
BRIDGEPORT																
07006C001 A01	26	36	39	43	45	54	61	64	77	98	126	148	70	31.50	64	1.51
HARTFORD																
07042C001 A01	26	23	34	38	52	63	71	79	86	89	101	103	67	24.87	62	1.56
NEW HAVEN																
07070C001 A01	26	45	52	71	74	80	86	98	122	140	165	186	100	39.48	93	1.48
WATERBURY																
07124C001 A01	25	22	51	60	75	84	88	105	112	113	146	217	95	41.29	86	1.62
DELAWARE																
NEWARK																
08014C001 A01	25	37	49	53	61	64	69	71	81	100	127	179	79	34.43	73	1.48
WILMINGTON																
08026C003 A01	24	74	77	82	101	103	111	119	123	130	141	176	113	26.55	110	1.27
DIST COLUMBIA																
WASHINGTON																
09002C003 A01	114	28	52	63	74	84	93	105	114	130	138	284	99	43.35	91	1.53
FLORIDA																
JACKSONVILLE																
101960002 A01	25	51	53	54	57	58	64	68	70	77	91	114	68	15.62	66	1.23
101960004 M01	137	19	34	47	60	74	93	113	138	159	187	484	108	73.60	87	1.97
101960006 M01	126	17	27	34	42	47	50	57	61	73	86	356	56	35.02	50	1.58
101960011 M01	123	18	27	32	34	39	44	48	53	64	84	164	49	23.85	45	1.53
101960016 M01	131	43	72	102	118	144	170	180	201	216	271	459	169	79.48	151	1.65
101960017 M01	127	12	28	31	36	46	53	61	75	97	168	366	75	64.14	58	2.00
101960028 M01	126	10	27	36	41	47	52	58	73	86	118	230	64	38.55	55	1.76
101960031 M01	128	11	20	28	34	37	42	46	50	56	72	128	44	19.09	40	1.57
101960032 M01	136	11	35	42	47	54	62	69	84	97	119	199	70	36.08	62	1.67
101960033 M01	129	12	30	37	41	48	52	58	67	74	84	132	55	20.95	51	1.50
MIAMI																
102700002 A01	25	27	47	57	64	67	70	77	82	85	105	117	73	21.81	69	1.40
ST PETERSBURG																
103980002 A01	24	23	29	31	35	36	38	43	48	57	79	137	47	24.09	43	1.49
TAMPA																
104360002 A01	26	36	48	61	65	78	102	113	121	127	133	167	94	35.58	87	1.52
GEORGIA																
ATLANTA																
110290001 A01	26	25	46	63	72	79	82	95	103	116	125	153	88	30.21	82	1.49
COLUMBUS																
111280001 A01	23	19	29	40	43	54	62	64	69	83	96	104	61	24.14	56	1.58
SAVANNAH																
114900001 A01	26	33	50	65	68	71	79	94	97	115	136	147	86	30.78	81	1.45
HAWAII																
HONOLULU																
120220001 A01	25	23	25	27	29	31	34	35	38	43	53	75	37	12.42	35	1.35
IDAHO																
BOISE CITY																
130220001 A01	23	24	37	46	51	56	62	69	76	102	105	191	72	37.24	65	1.60
ILLINOIS																
CHICAGO																
141220001 A01	26	38	56	74	100	114	129	139	146	165	188	242	124	50.07	112	1.60
141220002 A10	98	78	126	145	165	180	187	208	228	250	306	864	212	106.10	195	1.48
NORTH CHICAGO																
145620002 A01	25	24	31	35	66	67	75	83	116	133	201	719	118	139.72	83	2.17
PEORIA																
146080001 A01	26	52	78	95	96	106	114	143	159	172	331	357	151	88.20	131	1.69

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ILLINOIS																
ROCK ISLAND																
146700001 A01	24	23	40	47	53	68	78	100	110	123	138	182	85	41.32	74	1.72
SPRINGFIELD																
147280001 A01	25	41	56	62	70	74	82	89	95	104	120	125	84	23.37	81	1.34
INDIANA																
EAST CHICAGO																
151180001 A01	26	90	100	136	139	166	184	199	225	237	284	390	189	70.30	177	1.45
EVANSVILLE																
151300001 A01	26	39	46	51	56	80	88	109	111	114	130	148	88	32.52	82	1.51
FORT WAYNE																
151380001 A01	24	43	51	68	82	87	91	101	106	124	159	174	97	35.30	90	1.46
GARY																
151520001 A01	23	19	61	86	91	124	127	133	173	196	199	306	136	64.73	119	1.79
HAMMOND																
151780001 A01	26	55	60	73	95	106	112	117	154	161	207	272	128	59.16	116	1.57
INDIANAPOLIS																
152040001 A01	25	56	64	71	83	86	101	108	120	146	197	246	115	50.99	106	1.50
NEW ALBANY																
152980002 A01	21	25	37	44	60	73	74	85	104	113	123	197	85	43.00	75	1.68
SOUTH BEND																
153980002 A01	22	38	46	52	69	81	97	102	116	125	166	191	99	45.33	89	1.62
TERRE HAUTE																
154080001 A01	26	33	44	60	67	85	95	112	128	138	189	361	109	68.67	93	1.74
IOWA																
CEDAR RAPIDS																
160640001 A01	23	52	81	82	88	98	107	113	126	152	186	238	117	45.40	109	1.45
CLINTON																
160920011 F01	26	30	38	49	53	59	72	82	94	108	130	178	78	36.55	71	1.58
DAVENPORT																
161060001 A01	25	39	74	105	129	133	158	173	188	195	290	302	165	72.51	148	1.65
161060009 F01	27	56	68	86	96	106	113	125	132	154	169	229	119	41.03	.12	1.42
DES MOINES																
161180001 A01	24	43	54	68	78	83	86	97	109	145	166	193	102	42.01	94	1.51
161180025 F01	25	7	40	59	64	69	91	108	133	147	180	291	105	62.72	86	2.10
MASON CITY																
162520011 F01	20	38	52	57	70	84	93	123	133	153	217	229	115	59.28	101	1.69
WATERLOO																
163760003 F01	21	11	36	56	71	81	86	105	125	138	150	161	94	42.87	81	1.98
KANSAS																
KANSAS CITY																
171800002 A01	26	46	66	84	112	120	128	143	170	180	218	358	142	68.02	128	1.61
TOPEKA																
173560001 A01	26	33	38	49	50	60	64	76	83	93	113	145	73	29.61	67	1.49
WICHITA																
173740001 A01	25	31	42	59	65	77	83	86	104	119	147	220	92	43.78	82	1.61
KENTUCKY																
ASHLAND																
180080002 A01	26	27	67	95	108	125	132	144	169	188	307	351	152	79.33	132	1.75
BOWLING GREEN																
180320001 A01	21	8	31	39	46	50	53	56	64	71	88	94	56	21.47	50	1.70
COVINGTON																
180800001 A01	25	39	61	64	72	83	92	93	112	122	154	203	97	40.39	90	1.51
LEXINGTON																
182300001 A01	25	24	38	51	55	67	74	75	85	86	97	118	71	22.86	67	1.46
LOUISIANA																
BATON ROUGE																
190280001 A01	26	30	35	46	58	60	67	70	86	90	105	137	70	25.99	65	1.47
NEW ORLEANS																
192020002 A01	26	34	40	61	62	72	79	85	93	97	117	128	79	25.80	74	1.43
SHREVEPORT																
192740001 A01	24	36	38	54	63	71	76	84	94	102	126	208	85	43.42	76	1.59
MAINE																
PORTLAND																
200960002 A01	26	38	50	62	66	77	82	89	95	110	122	169	85	25.81	81	1.43
MARYLAND																
BALTIMORE																
210120001 A01	25	31	65	71	74	82	98	109	180	183	251	468	136	95.02	113	1.84

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
MASSACHUSETTS																
FALL RIVER																
220580002 A01	24	20	46	49	54	55	62	73	78	83	94	157	69	26.83	64	1.48
SPRINGFIELD																
222160002 A01	25	26	39	48	55	61	70	72	74	83	95	118	68	21.64	64	1.42
WORCHESTER																
222640001 A01	23	56	58	66	98	106	112	119	122	169	200	204	120	48.16	111	1.51
MICHIGAN																
BENTON HARBOR																
230460001 F01	23	58	64	77	80	89	105	114	125	147	236	475	128	90.05	110	1.65
CHARLEVOIX																
230840001 F01	26	13	15	26	29	35	38	46	50	56	104	189	48	37.21	40	1.86
230840002 F01	24	12	13	18	21	23	24	38	41	48	54	121	36	26.53	30	1.86
23C84CCC3 F01	26	8	14	19	23	26	28	42	53	62	108	116	43	30.90	33	2.05
230840005 F01	26	9	13	21	24	28	29	37	49	52	74	108	40	26.14	33	1.88
DETROIT																
231180001 A01	2[illegible]	45	61	78	85	103	111	126	141	157	224	324	128	67.96	113	1.64
FLINT																
231580001 A01	25	41	43	49	63	70	76	82	91	101	135	184	84	38.20	77	1.52
23158CCC2 F01	22	44	53	64	67	78	85	103	112	115	130	158	91	30.85	86	1.43
231580003 F01	23	39	47	52	73	82	85	92	107	122	133	200	92	38.04	85	1.51
231580004 F01	23	45	53	68	73	74	80	82	93	104	115	157	86	27.66	82	1.37
23158CCC5 F01	23	30	46	47	50	61	64	65	79	102	125	147	78	44.45	65	1.64
231580006 F01	22	78	100	134	140	151	157	210	217	287	395	774	219	154.05	186	1.73
2315800C8 F01	23	45	56	62	67	69	71	82	94	97	113	169	81	26.78	78	1.34
GRAND RAPIDS																
231820001 A01	25	29	40	43	68	71	82	93	106	107	117	145	82	33.20	75	1.58
23182003C5 F01	26	19	31	54	62	71	75	83	88	98	120	136	75	25.90	68	1.64
231820006 F01	26	23	34	44	53	77	87	98	112	115	124	176	84	38.95	75	1.70
231820007 F01	26	21	42	52	62	90	96	132	141	147	173	223	104	52.18	90	1.81
23182CC10 F01	26	14	23	42	49	60	61	75	86	90	118	214	71	39.85	62	1.77
231820011 F01	26	22	40	57	71	79	95	113	135	189	253	303	120	79.08	97	1.91
231820015 F01	26	16	22	36	38	50	52	58	70	79	100	118	58	28.47	51	1.71
23182C018 F01	26	15	21	23	25	37	47	60	67	76	105	125	52	31.00	44	1.87
231820019 F01	26	14	19	22	28	29	39	54	61	67	93	147	49	31.15	41	1.85
JACKSON																
232600001 F01	23	15	22	32	34	38	46	48	60	66	88	102	51	24.38	45	1.65
KALAMAZOO																
232640002 F01	24	30	41	61	73	78	86	90	106	120	127	209	90	38.98	82	1.57
LANSING																
232840001 A01	26	39	47	55	63	93	101	106	132	154	219	368	120	85.70	99	1.84
232840001 F01	27	39	47	55	70	93	104	113	130	154	219	368	121	83.57	101	1.81
MARQUETTE																
233260001 F01	25	9	27	30	33	42	46	49	59	70	100	116	52	27.37	45	1.75
MOUNT CLEMENS																
23366CCC1 F01	26	23	27	38	43	55	61	77	83	87	121	176	70	37.40	62	1.71
MUSKEGON																
233740001 F01	26	9	22	36	37	46	49	55	63	75	105	214	60	42.45	49	1.96
23374C013 F01	26	25	37	48	53	65	70	74	82	89	118	199	76	38.64	68	1.60
233740011 F01	26	11	26	40	43	48	51	60	71	73	150	348	73	68.22	56	1.99
PONTIAC																
23432CC01 F01	25	41	50	59	64	69	78	83	99	105	155	272	92	46.48	83	1.54
PORT HURON																
234340002 F01	26	31	70	82	87	95	119	142	154	181	206	339	131	65.49	116	1.66
23434CCC3 F01	25	45	59	73	85	87	113	118	130	159	184	205	115	46.22	106	1.53
234340004 F01	24	17	23	29	42	48	50	62	82	93	99	126	61	30.19	53	1.75
ROYAL OAK																
234580001 F01	26	33	39	52	61	66	73	79	103	117	189	232	90	51.43	79	1.67
SAGINAW																
234760001 A01	25	41	50	51	57	60	76	85	94	112	129	160	82	31.94	77	1.46
234760001 F01	25	41	50	51	57	73	79	85	94	112	129	160	83	31.61	78	1.46
SAULT STE MARIE																
234920002 F01	23	8	17	23	29	31	35	38	49	70	83	110	44	26.88	37	1.87
SOUTHFIELD																
23488CCC1 F01	26	23	30	49	52	57	59	66	71	93	144	198	73	41.66	64	1.67
TRENTON																
235120001 A01	26	52	73	83	83	90	92	100	107	135	159	176	104	31.40	99	1.34
MINNESOTA																
DULUTH																
241C40001 A01	26	26	31	53	54	62	65	75	88	95	118	148	73	30.13	67	1.55
MINNEAPOLIS																
242260001 A01	26	24	41	46	53	69	69	73	104	127	144	275	88	56.11	74	1.77

Table 3-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
MINNESOTA																
MOORHEAD																
242320001 A01	25	28	32	48	57	62	72	76	88	108	123	174	78	36.72	71	1.60
ST PAUL																
243300001 A01	26	34	48	68	71	80	94	132	142	150	164	366	115	68.75	100	1.71
MISSOURI																
KANSAS CITY																
262380002 A01	21	47	51	79	87	87	106	108	109	147	172	245	111	47.64	102	1.51
ST LOUIS																
264280002 A10	167	45	74	91	109	121	138	151	167	192	213	314	141	53.34	131	1.50
NEBRASKA																
LINCOLN																
281560002 A01	26	19	30	40	50	66	69	70	80	86	138	164	71	35.65	63	1.70
OMAHA																
2818BC0C1 A01	26	43	62	84	90	99	119	144	173	190	214	238	132	54.84	121	1.56
NEW HAMPSHIRE																
CONCORD																
30C120001 A01	26	14	23	29	31	36	38	41	50	57	58	68	41	14.28	38	1.49
NEW JERSEY																
BURLINGTON CO																
31C660002 A01	26	40	47	50	53	59	68	91	94	107	140	165	81	35.00	75	1.52
CAMDEN																
310720001 A01	26	61	68	79	88	94	100	113	131	140	168	238	114	42.67	107	1.42
ELIZABETH																
311300002 A01	25	36	48	56	68	81	93	101	103	110	122	161	88	31.37	83	1.48
GLASSBORO																
311700001 A01	26	28	43	46	51	63	65	73	87	89	104	107	69	23.04	65	1.45
JERSEY CITY																
312320001 A01	25	54	69	70	74	80	96	98	111	123	151	192	99	34.37	94	1.39
NEWARK																
313480001 A01	24	34	58	65	73	75	81	84	89	103	122	171	86	31.33	81	1.42
PATERSON																
314140001 A01	23	34	47	55	64	74	83	91	98	138	181	273	98	56.83	86	1.67
PERTH AMBOY																
314220001 A01	25	22	41	48	52	67	89	96	105	110	135	204	87	44.25	76	1.71
TRENTON																
315490001 A01	24	47	48	53	60	65	68	95	101	109	150	231	88	45.61	80	1.54
NEW MEXICO																
ALBUQUERQUE																
92CC4CCC1 A01	26	42	53	72	75	82	86	98	105	118	144	240	97	40.76	90	1.47
NEW YORK																
BUFFALO																
33C66C0C1 A01	24	28	41	58	80	103	108	115	127	158	198	309	116	65.36	99	1.79
NEW YORK CITY																
334680001 A01	25	63	89	94	101	114	127	131	137	164	185	208	128	37.06	123	1.35
NIAGARA FALLS																
334740001 A01	26	30	67	69	83	88	117	130	154	160	185	259	121	53.22	109	1.61
ROCHESTER																
335760CC1 A01	26	71	80	92	95	103	112	132	136	138	184	213	122	37.99	116	1.35
SYRACUSE																
336620001 A01	25	31	57	64	81	89	96	101	118	131	145	220	102	42.88	94	1.54
UTICA																
336880001 A01	25	32	47	54	68	71	86	95	113	122	143	307	96	55.08	85	1.63
YONKERS																
337620001 A01	26	39	49	56	63	70	74	88	93	113	136	152	84	32.20	78	1.46
NORTH CAROLINA																
CHARLOTTE																
3407CC0C1 A01	26	17	33	44	52	64	76	89	93	105	127	150	76	34.61	68	1.71
34C700002 G01	37	40	58	73	78	93	98	121	137	143	158	252	110	46.13	101	1.51
3407000C3 G01	26	47	50	65	73	86	94	100	105	108	140	150	93	30.17	88	1.41
3407000C4 G01	40	33	39	54	63	67	71	75	79	94	106	170	76	29.04	71	1.45
3407000C5 G01	41	31	32	43	47	55	56	69	79	94	109	301	80	63.24	66	1.77
3407000C6 G01	41	50	71	104	122	131	147	152	164	197	218	319	151	61.69	139	1.53
3407000C7 G01	32	19	26	36	44	50	55	67	69	73	83	125	58	25.58	53	1.61
3407000C8 G01	35	30	41	46	61	66	72	84	95	99	140	255	83	45.22	74	1.62
34C7C0009 G01	36	30	36	39	48	60	64	70	77	94	149	222	73	42.01	64	1.63

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
NORTH CAROLINA																
CHARLOTTE																
34C7000010 G01	40	28	46	67	74	92	98	102	114	134	162	219	102	42.151	93	1.55
3407000013 G01	34	20	37	43	56	62	64	69	77	99	133	207	75	44.161	65	1.73
3407000014 G01	34	14	26	32	40	45	48	51	55	60	62	68	46	13.781	44	1.44
34C7C00015 G01	40	16	23	32	37	45	50	59	64	83	118	191	61	37.131	53	1.75
3407000016 G01	41	28	31	37	49	56	65	73	85	104	112	176	73	37.421	65	1.65
DURHAM																
341160001 A01	24	37	61	64	70	75	87	103	107	122	128	158	91	30.981	85	1.43
GREENSBORO																
34174C001 A01	26	37	42	80	86	98	101	107	121	130	155	162	101	34.661	94	1.51
WINSTON-SALEM																
344460002 A01	24	61	75	96	101	114	117	132	142	149	172	270	126	46.701	119	1.41
NORTH DAKOTA																
BISMARCK																
35C130001 A01	26	17	24	48	57	70	84	107	134	154	164	211	96	53.631	79	1.99
OHIO																
CANTON																
361000001 A01	25	25	70	74	86	87	107	124	136	145	161	182	109	38.601	101	1.53
361C00001 H01	29	35	72	97	113	118	132	144	153	175	188	209	132	40.601	125	1.45
361000002 H01	28	54	62	69	83	98	104	119	127	140	155	185	107	36.301	101	1.42
361000003 H01	29	36	72	100	113	115	126	132	151	184	204	229	134	47.241	125	1.50
361CCC004 H01	31	27	57	75	90	107	120	131	142	151	172	202	117	42.781	108	1.55
361C00005 H01	31	56	74	77	90	111	118	127	140	147	159	275	121	45.951	114	1.43
361000006 H01	31	35	63	68	74	81	97	102	108	119	132	245	99	39.601	93	1.45
361000008 H01	31	26	48	65	69	77	91	105	114	119	127	185	91	33.541	86	1.51
361000011 P01	29	55	86	108	114	123	137	141	151	156	210	301	140	48.461	132	1.39
361000012 H01	31	17	40	51	60	70	86	95	101	106	116	184	85	40.251	76	1.67
361000013 H01	31	22	57	63	66	78	95	98	111	116	138	187	93	36.771	85	1.58
CINCINNATI																
361220001 A01	24	45	66	71	86	92	95	112	120	133	173	265	110	50.661	101	1.52
361220002 A01	25	35	41	45	48	57	71	75	81	88	141	149	76	35.081	69	1.55
361220003 A10	190	49	62	80	86	91	100	109	119	141	175	286	111	45.951	104	1.46
CLEVELAND																
361300001 A01	26	32	77	84	89	108	110	132	151	155	215	251	127	53.681	116	1.56
COLUMBUS																
361460031 A01	26	38	62	64	68	77	84	97	121	124	150	184	97	38.291	90	1.48
DAYTON																
361660001 A01	25	27	49	67	72	85	91	101	111	154	170	203	102	44.951	92	1.61
TOLEDO																
366600001 A01	25	41	44	53	60	69	78	88	99	103	117	157	82	29.411	77	1.44
YOUNGSTOWN																
367760001 A01	25	50	66	75	92	100	116	119	136	161	219	401	134	84.281	117	1.66
OKLAHOMA																
ARDMORE																
37C14C290 F01	45	23	32	38	48	55	68	76	95	105	151	236	79	46.781	68	1.77
BETHANY																
370260014 F01	77	23	38	45	50	55	62	68	79	90	114	359	74	49.251	65	1.61
JOHNSTON CO																
371480321 F01	56	23	30	44	50	60	67	71	75	82	99	379	75	61.201	64	1.65
MIDWEST CITY																
371940006 F01	100	12	39	48	55	57	62	74	81	91	103	1109	82	111.831	66	1.71
371940C1C F01	108	11	30	40	47	54	58	63	68	80	98	357	67	48.811	58	1.70
MUSKOGEE																
371980162 F01	88	15	34	41	50	60	65	75	87	117	135	443	80	57.841	66	1.86
NORMAN																
372080040 F01	91	14	31	45	51	59	62	70	79	93	121	490	78	62.681	65	1.78
OKLAHOMA CO																
372180005 F01	104	15	33	41	45	51	57	64	67	75	93	301	64	38.101	56	1.61
OKLAHOMA CITY																
372200001 A01	26	26	48	58	60	63	64	83	85	89	101	153	75	26.131	70	1.44
37220000[illegible] F01	70	24	35	48	57	64	71	77	84	92	106	330	77	44.251	68	1.59
372200008 F01	106	41	78	103	128	176	201	222	249	319	412	716	223	141.821	185	1.86
372200004 F01	106	10	36	46	53	59	66	74	83	100	153	419	87	71.231	70	1.89
372200007 F01	86	16	38	54	65	72	81	90	106	141	284	1716	136	203.991	91	2.20
372200009 F01	105	26	38	50	59	63	75	86	99	112	130	463	86	57.981	74	1.69
372200012 F01	85	12	50	59	74	89	103	116	137	149	305	444	128	92.571	104	1.90
TULSA																
373000001 A01	22	16	33	43	44	45	47	61	73	90	101	145	62	31.341	55	1.70
373000110 G01	83	23	30	36	48	53	60	77	106	119	186	433	88	67.521	70	1.92
373000111 G01	104	16	49	65	88	101	113	142	164	209	254	490	138	85.721	114	1.91
373000112 G01	122	19	45	59	75	89	99	114	124	147	170	556	115	79.731	98	1.74
373000116 G01	108	13	56	74	87	99	107	120	141	161	186	467	120	65.561	105	1.72
373000120 G01	104	33	61	77	91	115	126	154	171	221	275	556	154	100.841	129	1.82

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

YEAR : 1970 — 04/07/72

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C) — METHOD: HI-VOL/GRAVIMETRIC

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
OKLAHOMA																
TULSA																
373000125 G01	67	14	34	45	54	62	69	77	94	129	168	398	90	68.64	74	1.86
YUKON																
373320013 F01	82	9	35	40	53	58	68	78	93	120	145	578	88	75.83	70	1.91
OREGON																
PORTLAND																
381460001 A01	22	33	34	50	62	80	96	109	129	134	182	351	105	71.49	87	1.87
PENNSYLVANIA																
ALLENTOWN																
390120001 A01	26	59	86	93	102	109	110	119	122	139	179	228	120	38.99	114	1.36
ALTOONA																
390140001 A01	25	102	143	161	178	182	203	211	259	267	344	367	220	72.91	208	1.39
BETHLEHEM																
390780002 A01	26	51	64	70	74	82	90	103	118	124	172	317	109	58.56	98	1.54
ERIE																
393060002 A01	26	29	38	60	61	68	74	95	130	141	176	242	98	55.03	84	1.74
HARRISBURG																
393880001 A01	26	30	58	65	66	75	82	88	94	107	187	204	93	42.62	85	.52
JOHNSTOWN																
394460001 A01	23	63	94	110	112	136	138	149	149	158	175	261	137	39.79	132	1.34
PHILADELPHIA																
397140001 A01	24	87	93	96	100	105	111	165	173	201	217	287	144	55.31	135	1.44
397140002 A10	149	36	73	86	96	109	121	131	151	174	210	365	132	56.52	122	1.51
PITTSBURGH																
397260001 A01	24	58	80	88	103	118	122	135	145	176	213	276	137	57.30	127	1.49
READING																
397620001 A01	26	49	59	75	81	109	109	130	143	162	187	240	121	49.61	111	1.54
SCRANTON																
398040001 A01	25	48	80	96	119	139	146	158	203	249	356	522	188	118.79	159	1.78
WARMINSTER																
399160001 A01	25	30	36	38	40	44	52	55	58	67	81	92	54	17.38	51	1.37
WILKES-BARRE																
399430001 A01	23	53	59	65	69	76	83	94	101	130	171	196	99	43.36	91	1.48
YORK																
399560001 A01	26	37	61	77	86	90	91	103	125	134	162	180	104	36.10	98	1.44
PUERTO RICO																
BAYAMON																
400380002 A01	26	39	63	84	91	97	104	118	121	141	153	229	110	39.06	104	1.44
CATANO																
400560002 A01	26	101	136	155	156	170	182	221	250	254	369	452	218	87.21	204	1.44
GUAYANILLA																
401080002 A01	25	36	43	46	54	62	67	75	80	87	98	112	70	21.08	67	1.37
PONCE																
401920002 A01	25	57	71	75	78	82	88	92	102	110	122	192	94	27.70	91	1.30
SAN JUAN																
402140001 A01	24	57	58	65	77	81	82	88	98	110	115	135	87	21.46	85	1.28
RHODE ISLAND																
EAST PROVIDENCE																
410120001 A01	24	21	33	41	45	52	54	60	70	74	83	91	57	18.21	54	1.43
PROVIDENCE																
410300001 A01	26	35	62	73	78	80	85	97	108	112	139	151	93	29.25	88	1.40
SOUTH CAROLINA																
GREENVILLE																
421180001 A01	26	27	37	46	71	76	84	88	106	114	132	208	90	35.18	81	1.61
TENNESSEE																
CHATTANOOGA																
440380001 A01	26	59	62	76	94	97	108	120	129	159	212	377	127	70.24	113	1.58
440380018 G01	22	6	15	19	49	61	93	108	171	251	259	370	122	109.63	72	3.26
440380020 G01	106	36	59	74	88	110	120	135	152	165	191	300	127	55.84	115	1.59
KNOXVILLE																
441760002 A01	26	34	55	76	79	81	103	106	118	122	145	209	101	36.62	95	1.46
MEMPHIS																
442340001 A01	26	33	44	59	64	68	75	93	104	109	134	196	86	37.66	78	1.55
NASHVILLE																
442540001 A01	25	36	49	54	67	79	93	96	118	125	170	231	101	51.14	90	1.62

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/03/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
TENNESSEE																
NASHVILLE																
442540002 G01	46	38	53	62	66	71	90	96	119	126	156	266	96	43.43	88	1.53
442540003 G01	45	26	35	37	47	50	54	64	72	94	129	232	69	40.83	61	1.62
442540004 G01	47	46	57	70	80	88	96	104	108	131	137	181	98	31.10	93	1.38
442540005 G01	46	37	51	61	69	75	80	91	100	110	116	157	87	30.03	82	1.40
442540006 G01	47	54	84	96	104	121	144	163	171	181	206	542	149	75.87	136	1.51
442540007 G01	47	57	71	84	90	110	131	145	155	183	225	352	138	62.94	126	1.55
442540008 G01	43	28	33	39	42	53	59	65	73	83	103	168	64	29.80	58	1.57
442540009 G01	30	41	49	55	60	68	73	80	102	120	137	252	89	43.98	81	1.53
442540010 G01	46	26	35	43	49	53	68	81	103	106	150	366	84	57.84	71	1.74
442540011 G01	32	24	34	42	52	56	59	68	72	78	88	107	61	20.11	57	1.45
442540014 G01	45	63	78	84	104	110	135	156	174	185	223	1375	172	198.05	139	1.73
442540015 G01	42	22	34	38	40	45	53	61	65	80	88	170	58	27.17	53	1.53
442540016 G01	42	34	47	59	66	80	88	103	113	136	202	435	112	79.80	94	1.77
442540017 G01	41	26	31	34	40	46	51	59	65	77	86	103	55	21.48	52	1.48
442540018 G01	41	8	21	29	32	34	44	47	51	53	68	92	43	18.14	39	1.65
442540019 G01	42	9	24	26	29	33	37	47	50	55	84	92	42	17.55	38	1.57
442540020 G01	41	19	22	24	28	32	40	43	51	53	61	76	41	15.37	38	1.48
TEXAS																
DALLAS																
451310302 A01	26	71	74	83	84	94	102	113	121	128	137	160	105	25.15	102	1.27
EL PASO																
451730002 A01	26	69	100	110	113	129	138	154	174	212	268	311	160	65.16	149	1.47
FORT WORTH																
451880001 A01	26	25	53	66	72	76	83	86	90	91	116	132	81	22.78	78	1.39
HOUSTON																
452560001 A01	24	46	63	70	76	78	80	89	99	106	126	179	90	28.50	86	1.34
PASADENA																
454060002 A01	26	27	43	57	58	67	72	81	98	110	131	142	80	31.24	74	1.52
SAN ANTONIO																
454570001 A01	26	25	36	39	43	46	54	58	66	75	95	109	58	22.49	54	1.48
UTAH																
OGDEN																
466580001 A01	26	34	38	58	73	85	92	115	124	133	148	189	98	40.94	89	1.61
SALT LAKE CITY																
460920001 A01	25	29	38	63	80	85	91	92	100	103	124	159	88	29.26	82	1.48
VERMONT																
BURLINGTON																
471140001 A01	23	12	37	40	51	54	60	68	79	87	96	131	65	27.34	59	1.65
VIRGINIA																
DANVILLE																
480920001 A01	25	28	55	68	72	77	82	99	121	123	133	258	97	44.80	89	1.55
HAMPTON																
481440001 A01	25	27	35	43	53	55	58	58	63	74	85	121	61	20.96	58	1.40
LYNCHBURG																
481840001 A01	26	42	68	79	85	93	118	133	146	157	230	270	125	55.67	114	1.55
NEWPORT NEWS																
482120001 A01	26	34	43	51	58	63	68	75	82	91	95	125	71	21.56	67	1.37
NORFOLK																
482140001 A01	26	34	49	59	66	74	79	88	99	103	110	185	83	30.69	78	1.43
PORTSMOUTH																
482440001 A01	26	36	62	72	74	90	94	100	110	119	150	188	99	36.42	92	1.46
RICHMOND																
482660002 A01	24	42	44	55	69	71	83	102	110	121	138	165	89	35.35	83	1.50
ROANOKE																
482700001 A01	25	40	5	65	76	87	103	107	116	127	140	169	99	35.37	93	1.49
WASHINGTON																
SEATTLE																
491840001 A01	25	25	36	38	47	48	51	69	79	92	128	207	70	41.48	62	1.67
SPOKANE																
492040001 A01	26	31	34	54	60	64	69	79	93	121	152	382	96	75.33	79	1.82
TACOMA																
492140001 A01	26	24	35	40	43	51	60	63	74	102	134	181	72	42.34	62	1.71
WEST VIRGINIA																
CHARLESTON																
500280001 A01	26	64	75	94	110	136	139	147	224	311	345	441	183	110.44	156	1.76
SOUTH CHARLESTON																
501760001 A01	26	34	56	76	77	103	113	138	166	184	281	296	135	73.37	117	1.74
WISCONSIN																
EAU CLAIRE																
510840002 A01	24	26	33	35	43	53	58	69	70	83	90	120	61	24.13	56	1.51

Table 3-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/07/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
WISCONSIN																
FRANKLIN																
511080012 H01	226	12	31	36	41	47	54	63	78	92	112	204	65	35.09	56	1.69
KENOSHA																
511540001 A01	24	22	33	38	54	68	72	86	90	101	117	134	74	32.48	67	1.65
MADISON																
511860001 A01	26	24	37	51	58	62	64	76	93	101	118	149	74	31.93	68	1.57
MILWAUKEE																
512200001 A01	25	30	39	59	67	85	93	102	121	132	171	272	105	55.84	91	1.72
512200008 H01	238	16	36	47	57	66	73	82	96	114	143	266	83	43.65	73	1.66
512200009 H01	248	23	39	48	55	62	71	79	87	106	132	258	78	37.48	71	1.58
512200013 H01	246	27	54	69	79	91	101	114	129	143	178	304	112	52.76	100	1.59
512200019 H01	235	7	35	45	53	61	69	77	93	104	136	240	78	40.56	68	1.69
512200099 H01	244	35	64	83	97	108	123	136	148	171	205	325	130	54.78	118	1.55
RACINE																
512880001 A01	24	16	31	37	56	58	61	84	85	90	124	170	71	36.72	62	1.78
SUPERIOR																
513480001 A01	23	35	44	52	65	74	80	90	92	98	123	140	81	25.22	76	1.46
WAUWATOSA																
513900002 H01	245	7	35	45	53	63	68	80	93	110	145	243	79	41.21	69	1.73
WYOMING																
CASPER																
520120001 A01	26	23	28	35	41	47	58	74	80	81	103	128	63	28.94	57	1.62
CHEYENNE																
520140001 A01	23	11	20	22	29	34	35	40	44	51	54	56	37	13.19	34	1.53

Table 3-2. SUSPENDED PARTICULATE MATTER, NONURBAN FREQUENCY DISTRIBUTIONS FOR 1970

04/03/72

YEAR : 1970

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	PCT	FREQUENCY DISTRIBUTION , %									MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ARIZONA GRAND CANYON NAT P 03397001 AL3	25	6	6	8	10	22	25	31	36	38	51	64	27	17.00	21	2.19
ARKANSAS MONTGOMERY CO 04176001 AL3	22	8	12	17	24	27	31	33	35	38	40	57	29	11.80	26	1.64
CALIFORNIA HUMBOLDT CO 05333001 A03	23	17	24	27	29	35	39	41	48	50	65	73	41	15.45	38	1.48
COLORADO MESA VERDE NAT PAR 06153002 A03	25	4	7	9	12	18	25	25	27	28	42	53	23	13.11	19	1.91
FL. [illegible] [illegible] [illegible] A03	26	16	22	24	28	31	32	36	40	44	45	49	33	9.15	32	1.34
HAWAII HAWAII VOLCANOES NI 12[illegible] A03	23	5	6	6	8	8	8	9	10	17	29	71	15	18.07	11	2.05
IDAHO BUTTE CO [illegible] A03	26	2	3	4	5	6	8	10	11	12	19	24	9	6.17	8	1.99
INDIANA [illegible] [illegible] A03	24	12	23	28	29	34	36	36	37	45	67	78	36	16.14	33	1.52
PARKE CO [illegible] A03	25	31	41	43	5	56	60	64	75	87	118	139	69	29.18	64	1.50
MAINE ACADIA NAT PARK [illegible] A03	26	7	12	13	16	22	28	31	34	40	56	68	29	17.51	25	1.88
MISSOURI SHANNON CO [illegible] A03	25	12	15	17	17	23	25	28	35	41	45	73	30	15.86	26	1.62
NEBRASKA THOMAS CO [illegible] A03	22	1	8	13	18	20	22	26	29	37	44	98	27	20.78	20	2.51
NEVADA WHITE PINE CO [illegible] A03	24	2	5	9	13	15	16	20	23	24	27	27	17	8.00	14	2.03
NEW HAMPSHIRE COOS CO [illegible] A03	25	9	10	11	13	15	20	21	28	33	42	48	22	12.07	20	1.68
NEW YORK JEFFERSON CO [illegible] A03	26	7	13	21	24	26	29	35	42	44	60	75	34	17.37	29	1.78
NORTH CAROLINA CAPE HATTERAS NAT [illegible] A03	24	33	44	49	71	75	89	103	114	123	148	177	92	39.48	84	1.59
OKLAHOMA CHEROKEE CO 3704800[illegible] A03	24	12	21	28	36	40	41	49	63	82	98	118	53	29.14	45	1.81
OREGON CURRY CO [illegible] A03	24	15	31	33	36	43	47	57	60	74	80	107	52	23.39	47	1.65
PENNSYLVANIA CLARION CO 391760001 A03	26	17	24	29	32	36	42	48	56	62	84	91	47	21.46	42	1.60
RHODE ISLAND WASHINGTON CO 41034C002 A03	25	10	16	17	23	24	29	31	40	46	58	81	33	17.11	30	1.66
TENNESSEE CUMBERLAND CO 440480001 A03	22	14	24	29	31	33	34	44	54	59	65	96	43	19.78	39	1.59
TEXAS MATAGORDA CO 453530001 A03	25	15	18	21	25	27	33	35	36	38	43	49	31	9.58	30	1.40
TOM GREEN CO 455270001 A03	25	19	23	36	38	47	57	59	64	73	98	122	57	27.21	51	1.64
VERMONT ORANGE CO 47[illegible] A03	26	13	17	19	21	23	28	31	35	40	56	59	30	13.00	28	1.51
VIRGINIA SHENANDOAH NAT PAR [illegible] A03	25	17	18	21	23	26	32	33	40	41	57	61	34	14.21	31	1.54

Table 3-2 (continued). SUSPENDED PARTICULATE MATTER, NONURBAN FREQUENCY DISTRIBUTIONS for 1970.

04/03/72

Y [illegible] : 197[illegible]

SAMPLING INTERVAL : 24-HOUR

METHOD: HI-VOL/GRAVIMETRIC

UNITS : UG/CU METER (25 C)

LOCATION :	NO. SAMP	MIN	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
VIRGINIA																
WYTHE CO.																
[illegible]	26	12	19	20	27	29	33	34	41	45	59	77	36	15.81	32	1.55
WASHINGTON																
KING CO.																
[illegible]	24	11	19	21	27	[illegible]	31	42	42	54	60	73	36	16.22	32	1.62

SECTION 4. URBAN AND NONURBAN SUSPENDED PARTICULATE MATTER, 1971

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TABLE 4-1. SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

YEAR : 1971 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	PCT.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ALABAMA																
GADSDEN																
01148[illegible] A01	23	14	46	63	70	76	89	90	100	104	116	143	84	28.76	77	1.61
HUNTSVILLE																
01[illegible] A01	24	23	33	35	48	52	58	72	75	85	95	118	63	25.45	58	1.54
MONTGOMERY																
01246[illegible]01 A01	25	26	29	37	49	55	59	63	83	86	118	154	68	33.25	61	1.64
ALASKA																
ANCHORAGE																
[illegible] A01	26	14	21	33	39	49	53	81	89	125	167	211	76	54.77	59	2.13
ARIZONA																
MARICOPA CO																
23[illegible]001 A01	26	22	58	65	69	80	82	96	114	126	160	234	99	50.10	89	1.64
PHOENIX																
[illegible] A01	25	76	91	96	117	122	134	143	147	158	218	417	145	68.04	135	1.43
TUCSON																
[illegible] A01	25	26	63	65	71	84	88	99	107	117	135	175	94	32.99	88	1.46
ARKANSAS																
WEST MEMPHIS																
[illegible] A01	24	7	8	9	24	43	81	100	109	116	152	162	72	52.95	45	3.10
CALIFORNIA																
ANAHEIM																
[illegible] A01	25	54	77	89	92	98	109	123	130	151	197	325	126	58.21	116	1.50
BURBANK																
[illegible] A01	25	54	94	108	113	122	133	142	150	153	194	320	140	54.66	131	1.46
GLENDALE																
[illegible] A01	26	42	44	64	72	90	96	101	104	110	118	137	89	25.87	85	1.40
LONG BEACH																
[illegible] A01	23	45	56	74	78	81	86	96	102	115	121	150	91	26.31	87	1.35
LOS ANGELES																
[illegible] A01	24	67	76	99	120	121	133	155	161	169	198	275	141	48.01	133	1.42
OAKLAND																
[illegible] A01	25	3	31	35	41	45	49	52	70	82	98	118	58	26.10	49	2.33
ONTARIO																
[illegible] A01	24	28	66	77	103	110	112	133	145	162	185	251	123	51.18	111	1.62
PASADENA																
[illegible] A01	24	47	65	83	94	95	102	108	120	127	147	181	105	31.38	100	1.38
SACRAMENTO																
[illegible] A01	25	24	31	33	42	48	54	60	63	71	107	161	61	33.46	54	1.62
SAN BERNARDINO																
[illegible] A01	24	39	53	67	70	73	86	140	168	186	225	241	121	66.45	104	1.77
SAN FRANCISCO																
[illegible] A01	26	27	30	33	43	47	51	62	65	74	79	163	57	27.69	52	1.52
SAN JOSÉ																
[illegible] A01	25	45	53	64	83	85	96	99	116	139	191	242	108	49.69	98	1.54
SANTA ANA																
[illegible] A01	25	56	82	106	114	119	133	151	171	185	233	361	154	73.25	140	1.55
COLORADO																
DENVER																
[illegible] A01	25	35	62	69	85	92	108	121	153	225	269	344	139	86.09	118	1.79
[illegible] A1	117	74	101	114	145	159	180	199	216	253	391	888	213	134.97	186	1.84
CONNECTICUT																
BRIDGEPORT																
[illegible] A01	26	30	36	40	45	50	54	65	82	85	97	103	62	22.65	58	1.45
HARTFORD																
[illegible] A01	23	26	36	48	52	59	71	72	75	84	89	131	68	21.89	64	1.43
NEW HAVEN																
[illegible] A01	26	41	63	66	74	80	96	105	108	113	140	159	94	25.68	89	1.39
WATERBURY																
[illegible] A01	26	35	46	67	74	81	86	96	116	124	152	161	94	34.18	88	1.47
DELAWARE																
NEWARK																
[illegible] A1	26	31	43	47	51	69	78	79	84	92	116	135	74	27.54	69	1.52
DIST COLUMBIA																
WASHINGTON																
[illegible] A01	24	35	49	53	65	68	74	78	80	92	108	148	76	24.60	73	1.37
[illegible] A1	120	25	52	67	74	82	88	92	108	126	140	232	96	39.01	89	1.59

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Table 4-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

YEAR : 1971 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
FLORIDA																
JACKSONVILLE																
1[illegible] AO1	26	8	43	50	56	62	64	68	72	77	104	162	68	28.15	62	1.68
1[illegible] MO1	128	28	44	58	69	83	93	101	122	151	190	448	107	61.99	93	1.71
1[illegible] MO1	126	29	48	58	64	68	75	82	94	104	122	215	83	33.65	77	1.47
1[illegible] MO1	128	22	39	43	50	55	63	66	71	79	93	177	64	24.24	60	1.43
1[illegible] MO1	130	32	85	109	131	149	177	201	229	253	288	494	186	82.90	167	1.63
1[illegible] MO1	137	29	36	48	54	59	63	70	79	86	100	181	69	28.80	64	1.47
1[illegible] MO1	141	28	42	51	60	66	71	79	84	92	120	283	77	34.05	71	1.49
1[illegible] MO1	131	18	34	39	42	49	54	63	71	81	92	144	60	24.54	55	1.50
1[illegible] MO1	141	29	44	56	65	77	90	98	117	137	172	283	98	48.96	87	1.66
1[illegible] MO1	131	29	47	56	61	66	71	76	83	92	100	199	74	23.44	71	1.36
MIAMI																
1[illegible] AO1	25	36	49	51	59	61	71	74	79	88	95	145	72	25.31	68	1.40
ST PETERSBURG																
1[illegible] AO1	25	24	27	32	35	36	43	51	52	60	83	88	45	13.82	43	1.37
GEORGIA																
ATLANTA																
1[illegible] AO1	26	37	45	64	70	72	75	86	97	102	120	139	83	26.35	79	1.39
COLUMBUS																
1[illegible] AO1	23	27	36	43	55	57	61	65	75	77	82	100	62	18.87	59	1.39
SAVANNAH																
1[illegible] AO1	24	36	47	48	54	55	61	67	73	82	116	266	73	46.56	65	1.54
HAWAII																
HONOLULU																
12712[illegible]001 AO1	25	23	28	32	36	37	39	40	48	52	62	93	44	15.20	41	1.37
ILLINOIS																
PEORIA CITY																
13[illegible]201 AO1	22	36	57	63	66	72	79	87	88	95	108	115	79	21.18	76	1.34
ILLINOIS																
CHICAGO																
14122[illegible] AO1	25	45	65	74	93	109	123	126	149	174	199	245	126	53.17	115	1.57
14122[illegible] AO1	137	77	123	128	141	152	171	182	200	226	264	448	184	70.46	173	1.41
NORTH CHICAGO																
14562[illegible] AO1	24	31	46	47	59	59	67	69	81	101	104	158	74	31.67	68	1.48
PEORIA																
14[illegible] AO1	26	15	62	66	69	76	85	86	112	127	185	304	101	58.23	88	1.73
ROCK ISLAND																
1467[illegible]001 AO1	26	43	60	69	73	78	81	96	110	129	163	181	98	38.88	91	1.47
SPRINGFIELD																
1472[illegible] AO1	26	46	55	64	65	75	80	96	100	107	120	134	86	24.33	83	1.33
INDIANA																
EAST CHICAGO																
15118[illegible] AO1	26	66	86	119	126	147	155	160	192	188	229	280	158	51.01	150	1.41
EVANSVILLE																
15133[illegible] AO1	26	32	40	50	51	62	68	82	91	99	120	165	76	31.95	70	1.52
HAMMOND																
15178[illegible] AO1	25	55	56	65	72	84	101	111	133	152	256	264	117	62.77	104	1.62
INDIANAPOLIS																
15204[illegible] AO1	25	10	53	69	76	86	92	106	109	118	141	169	95	35.26	88	1.74
IOWA																
CLINTON																
16092[illegible] FO1	23	6	24	36	40	45	47	55	66	74	80	114	53	23.18	47	1.73
DAVENPORT																
1616[illegible] FO1	32	39	54	69	73	79	99	110	135	163	191	359	117	69.33	101	1.69
DES MOINES																
16118[illegible] AO1	26	8	48	64	74	85	92	101	121	126	142	255	98	46.36	86	1.85
16118[illegible] FO1	95	24	43	57	75	96	109	119	154	169	221	656	136	120.85	105	2.01
MASON CITY																
16252[illegible] FO1	36	34	44	59	80	112	115	140	166	191	256	705	152	128.72	119	2.01
WATERLOO																
16376[illegible] FO1	33	34	38	58	62	74	88	98	112	132	173	238	98	50.72	88	1.67
KANSAS																
KANSAS CITY																
1718[illegible]002 AO1	26	74	94	102	104	127	136	147	166	171	193	219	139	38.76	133	1.34
TOPEKA																
1735[illegible] FO1 AO1	24	31	49	61	82	105	111	125	134	219	238	284	127	73.35	107	1.85
WICHITA																
1737403C1 AO1	25	31	47	57	61	73	77	79	94	101	124	147	81	29.51	76	1.44

Table 4-1 (continued), SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS for 1971

05/06/72

YEAR : 1971 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 1	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
KENTUCKY																
ASHLAND																
19[illegible]0002 A01	24	67	73	97	106	116	122	147	152	221	302	377	161	84.96	142	1.63
BOWLING GREEN																
19[illegible]3200[illegible] A01	26	27	30	35	39	45	53	57	68	69	80	144	56	25.49	51	1.50
COVINGTON																
19[illegible]0001 A01	25	54	57	68	77	79	86	90	108	114	127	272	96	42.93	90	1.41
LEXINGTON																
19[illegible]1 A01	25	38	48	60	68	69	74	76	79	85	97	124	75	20.30	72	1.32
LOUISVILLE																
19[illegible]003 A01	24	61	70	76	87	93	94	106	120	133	142	144	102	26.36	99	1.30
LOUISIANA																
BATON ROUGE																
19[illegible]1 A01	24	32	43	58	63	69	70	74	80	85	95	96	73	17.70	68	1.34
NEW ORLEANS																
19[illegible]2 A01	26	34	46	57	63	68	75	80	82	87	91	110	73	17.44	70	1.30
SHREVEPORT																
19[illegible]1 A01	21	31	47	66	68	74	75	76	82	106	128	196	86	36.98	80	1.49
MAINE																
PORTLAND																
2[illegible]2 A01	24	36	47	48	55	59	61	80	81	102	126	246	80	45.27	71	1.57
MASSACHUSETTS																
CAMBRIDGE																
22[illegible]1 A01	21	36	40	53	58	61	67	73	77	83	139	149	76	32.64	70	1.48
FALL RIVER																
22[illegible]2 A01	23	32	38	42	49	51	60	64	79	91	100	130	66	25.65	62	1.46
WORCESTER																
22[illegible]1 A01	25	56	58	89	112	126	128	161	179	198	283	337	156	77.60	138	1.66
MICHIGAN																
ALLEN PARK																
23[illegible]1 G01	49	53	69	81	94	105	122	143	167	189	252	443	143	79.50	126	1.63
ANN ARBOR																
23[illegible]2 F01	22	30	41	54	55	58	65	76	87	98	101	108	70	23.18	66	1.44
CHARLEVOIX																
23[illegible] A F01	25	2	8	9	19	25	27	31	46	55	88	163	39	36.23	25	2.79
23[illegible] F01	25	1	8	9	11	12	16	21	25	28	50	59	21	15.16	17	2.11
23[illegible] F01	25	10	11	11	16	21	31	33	42	56	74	79	34	22.46	27	2.01
23[illegible] F01	24	6	10	12	17	22	23	25	30	53	63	86	30	21.30	24	2.03
DEARBORN																
23114[illegible]3 G01	48	30	39	47	58	66	74	88	102	121	134	240	85	43.82	76	1.64
DETROIT																
23116[illegible]1 A01	24	56	63	68	76	83	93	98	107	129	138	156	96	25.91	92	1.35
2311[illegible]2 G01	59	43	64	72	76	90	102	117	138	154	182	256	115	49.51	105	1.52
2311[illegible]36 G01	48	36	54	58	66	73	91	101	113	128	193	224	100	49.42	90	1.59
2311[illegible]212 G01	53	66	90	117	130	143	166	187	200	224	256	349	173	66.93	160	1.49
2311[illegible]15 G01	48	70	105	127	148	174	198	225	244	279	332	436	207	88.22	189	1.55
2311[illegible]16 G01	54	54	65	75	82	98	111	131	150	202	234	461	139	82.48	121	1.67
2311[illegible]17 G01	54	50	66	80	113	134	141	168	187	229	321	376	165	86.10	144	1.70
2311[illegible]18 G01	51	45	61	71	77	91	108	113	120	148	180	317	113	53.31	103	1.53
2311[illegible]19 G01	57	30	47	56	59	76	75	85	105	118	164	258	93	51.09	82	1.63
FLINT																
2312[illegible]1 A01	23	29	35	47	53	60	73	78	80	92	92	106	69	21.98	66	1.42
GRAND RAPIDS																
23182[illegible]1 A01	24	47	44	46	66	68	72	82	96	117	127	194	83	38.06	75	1.55
23182[illegible]2 H01	26	26	33	50	55	66	73	83	103	117	159	204	84	42.82	74	1.68
23182[illegible]6 H01	26	42	47	50	65	70	78	86	103	121	129	231	88	41.84	80	1.53
23182[illegible]7 H01	26	41	44	61	76	84	96	116	129	131	167	192	103	43.19	93	1.58
23182[illegible]11 H01	26	38	46	72	85	116	125	140	159	201	244	283	137	69.67	119	1.77
23182[illegible]15 H01	26	22	25	34	37	42	45	56	75	77	104	138	57	29.49	51	1.62
23182[illegible]18 H01	26	12	18	23	30	31	35	46	52	57	62	105	41	20.41	37	1.67
23182[illegible]19 H01	26	12	22	25	27	30	36	41	57	67	84	129	45	25.18	39	1.76
GROSSE ILE																
2419[illegible]4 G01	57	47	73	94	102	114	133	154	162	174	219	291	141	56.19	130	1.51
JACKSON																
2426[illegible]1 F01	25	8	28	31	37	40	52	57	60	67	76	96	51	20.52	45	1.68
KALAMAZOO																
2426[illegible]2 F01	25	15	35	42	51	66	71	78	91	102	129	142	74	33.23	66	1.68
LANSING																
2427[illegible]1 A01	24	13	55	59	62	72	84	98	109	142	159	196	94	43.49	83	1.75
LINCOLN																
2[illegible]2 G01	54	27	35	49	53	66	75	93	95	129	163	235	87	49.50	76	1.70

Table 4-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

YEAR = 1971 METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL = 24-HOUR

UNITS = UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
LOUISIANA																
LAFAYETTE																
2332[illegible]05 F01	29	6	18	21	28	34	42	45	57	70	91	463	61	83.41	42	2.22
MAINE																
2335[illegible]21 F01	22	36	63	73	81	88	91	102	104	127	49	175	100	35.52	94	1.45
2335[illegible]24 F01	22	21	73	75	86	93	115	128	142	151	177	213	117	46.89	106	1.66
MARYLAND																
PRINCE GEORGES																
2336[illegible]01 F01	30	17	31	34	39	48	52	57	63	72	96	180	58	29.47	52	1.57
MASSACHUSETTS																
2337[illegible]01 F01	27	27	40	45	49	63	66	67	87	95	115	149	72	31.35	66	1.54
2337[illegible]01 F01	24	29	40	43	49	52	53	66	74	86	112	127	66	26.32	61	1.47
2337[illegible]11 F01	23	28	36	42	45	67	79	84	95	127	142	350	91	71.56	73	1.92
MICHIGAN																
DETROIT																
2338[illegible]01 F01	24	16	37	42	47	55	60	69	73	93	113	153	68	32.36	61	1.63
MINNESOTA																
FORT SNELLING																
2343[illegible]03 F01	25	44	51	60	62	65	74	92	107	121	143	189	91	37.60	84	1.45
MISSISSIPPI																
RIVER HOLCE																
2344[illegible]03 G01	54	48	85	93	104	127	135	157	168	218	245	779	165	121.52	138	1.77
MISSOURI																
SAGINAW																
2347[illegible]01 A 1	26	32	43	47	58	63	65	69	96	109	129	164	76	32.22	70	1.50
MONTANA																
BILLINGS																
2351[illegible]01 A01	26	50	54	63	69	87	97	101	125	141	161	181	101	30.04	94	1.48
2351[illegible]03 G01	53	31	54	77	82	93	101	108	122	138	173	259	107	45.92	98	1.56
NEBRASKA																
OMAHA																
2352[illegible]01 F01	41	30	47	53	59	64	68	75	84	101	122	173	78	31.90	72	1.46
NEVADA CO																
2353[illegible]05 G01	50	30	35	50	57	66	74	81	89	104	126	210	81	38.30	73	1.57
NEW JERSEY																
WESTLAND																
2355[illegible]01 G01	56	23	33	41	54	68	76	80	91	115	128	201	80	40.03	70	1.67
NEW JERSEY																
WANAQUETTE																
2356[illegible]01 G01	57	44	68	75	86	104	121	137	142	156	202	318	125	55.10	114	1.55
NEW MEXICO																
ALBUQUERQUE																
3271[illegible]01 A01	23	51	62	64	81	83	90	94	106	135	159	212	102	40.68	96	1.44
3271[illegible]01 F01	28	27	44	60	76	85	91	109	120	127	178	230	103	50.50	91	1.67
3271[illegible]03 F01	49	46	67	82	88	108	126	144	152	166	168	264	126	48.97	117	1.50
3271[illegible]04 H01	48	36	44	49	57	61	75	81	96	121	147	836	98	114.54	79	1.74
3271[illegible]05 F01	49	27	57	74	87	100	117	126	142	176	195	242	119	49.97	108	1.60
3271[illegible]06 H01	46	16	23	38	42	54	58	59	63	69	89	141	7	26.17	52	1.62
NEW YORK																
BERNALILLO CO																
3271[illegible]02 H01	49	11	33	48	57	75	85	92	111	123	136	238	88	43.23	77	1.78
3271[illegible]11 H01	43	38	65	79	93	102	116	126	134	154	167	212	116	35.89	109	1.45

Table 4-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR : 1971

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
NEW MEXICO																
BERNALILLO CC 320140091 A01	46	4	9	12	14	19	22	26	34	41	60	129	30	26.90	22	2.17
NEW YORK																
BUFFALO 33C66CC01 A01	24	48	55	67	74	77	81	91	96	115	140	495	107	89.22	91	1.62
NIAGARA FALLS 33474CC01 A01	26	56	60	71	75	87	98	110	123	125	163	234	106	41.86	99	1.45
ROCHESTER 33570CC01 A01	26	35	46	65	67	79	81	93	104	105	123	211	88	36.18	82	1.50
SYRACUSE 33662C101 A01	26	23	57	73	81	90	100	115	141	152	177	256	112	52.70	100	1.67
UTICA 33698[illegible]31 A01	26	37	46	52	62	72	81	93	100	115	139	214	90	42.96	81	1.57
NORTH CAROLINA WINSTON-SALEM 34448[illegible]C2 A01	24	3	90	99	109	112	133	151	173	194	224	246	139	58.64	115	2.38
NORTH DAKOTA BISMARCK 35C1J0CC1 A01	26	27	44	58	58	66	67	72	90	95	128	261	81	45.61	73	1.59
OHIO AKRON 36[illegible]C1 A01	25	53	64	72	85	91	105	110	121	130	161	261	112	47.14	104	1.46
CANTON 361[illegible]061 A01	23	8	66	70	76	81	87	101	123	130	164	197	101	44.25	88	1.90
CINCINNATI 36122[illegible]01 A01	23	57	63	65	80	89	94	97	104	126	142	225	104	45.78	96	1.46
36122[illegible]03 A01	188	5	59	75	84	97	109	120	136	147	169	350	113	49.35	100	1.79
CELLPELS 36146[illegible]01 A01	26	3	53	62	67	75	80	90	96	101	114	143	81	27.49	71	2.02
DAYTON 36146[illegible]01 A01	24	16	54	62	83	85	94	106	113	136	150	158	98	36.97	89	1.65
IRONTON 363C88002 A01	23	48	59	62	68	93	106	121	138	203	219	265	121	63.65	106	1.68
PORTSMOUTH 365620002 A01	26	41	47	52	55	59	63	68	85	88	108	149	73	[illegible]	68	1.41
STEUBENVILLE 366420[illegible]01 A01	24	33	105	113	180	196	226	247	286	316	378	679	244	138.53	206	1.90
YOUNGSTOWN 3677600[illegible] A01	25	55	67	81	90	92	99	105	123	157	200	233	117	48.72	108	1.47
OKLAHOMA ADA 37[illegible]C243 F01	54	7	25	35	38	44	51	57	63	73	89	177	55	28.21	49	1.69
ARKANSAS 37[illegible]C640 F01	88	6	21	29	35	50	60	67	77	98	128	227	65	42.45	52	2.04
CHANDLER 37C44C080 F01	99	6	24	33	42	49	57	65	70	83	116	236	64	40.15	53	1.89
EDMOND 37C940[illegible]6 F01	96	14	37	50	56	62	64	69	83	92	107	368	74	43.73	65	1.62
EL RENO 371[illegible]C100 F01	90	3	19	31	38	49	63	74	91	92	127	679	75	81.11	55	2.23
GRADY CC 371130063 F01	83	5	18	25	37	42	49	57	66	80	102	1106	69	121.53	47	2.19
GUTHRIE 37116C090 F01	100	16	45	51	59	66	72	82	90	101	120	1119	90	109.64	75	1.65
HUGO 37143C35C F01	90	13	46	64	75	78	85	92	100	111	151	651	101	81.88	85	1.76
KINGFISHER 371520032 F01	56	17	21	34	51	66	79	85	93	110	133	227	79	45.51	69	1.92
MC ALESTER 37172C410 F01	114	5	29	41	48	54	61	67	74	86	116	350	71	53.61	56	1.83
MC INTOSH CC 371780420 F01	32	1	22	25	30	34	35	40	47	50	72	166	44	33.38	35	2.39
MIAMI 37192[illegible]524 F01	75	27	37	44	50	55	60	67	76	85	130	166	67	27.66	62	1.48
MIDWEST CITY 371540CC6 F01	93	10	31	34	44	50	55	59	65	75	94	166	59	27.91	[illegible]	1.58

Table 4-1 (continued) SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

METHOD: HI-VOL/GRAVIMETRIC

YEAR = 1971

SAMPLING INTERVAL = 24-HOUR

UNITS = UG/CU METER (25 C)

LOCATION	AC. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
OKLAHOMA																
MIDWEST CITY																
371540310 F01	103	16	31	35	40	46	53	57	61	71	98	302	59	38.73	52	1.63
MUSKOGEE																
371582162 F01	114	14	31	38	46	55	66	72	79	87	107	1311	80	127.33	61	1.83
371582163 F01	83	16	32	45	54	61	66	75	81	99	125	344	76	45.61	66	1.70
NORMAN																
372180340 F01	110	9	28	39	43	50	60	67	75	92	112	507	70	56.51	58	1.86
OKLAHOMA CITY																
372240101 F01	49	26	41	59	70	78	85	90	98	111	115	418	90	55.33	80	1.60
372220002 F01	71	12	32	41	52	60	73	90	103	121	146	473	88	65.83	71	1.92
372220704 F01	88	14	34	41	51	57	61	71	82	102	127	680	81	77.83	66	1.81
372220009 F01	88	17	29	37	44	53	62	69	80	103	126	395	76	57.50	62	1.87
372240012 F01	74	35	46	56	61	70	73	81	93	110	132	294	86	43.48	78	1.56
OKMULGEE																
372220150 F01	80	17	29	33	36	42	49	54	62	72	92	164	56	30.87	50	1.65
PRYOR																
372940190 F01	77	19	49	65	78	86	91	99	105	116	137	211	94	37.52	86	1.57
SAPULPA																
372080140 F01	61	32	40	62	70	77	85	96	108	118	139	168	91	34.93	84	1.51
SAYRE																
372730732 F01	49	15	53	68	82	94	107	125	139	163	216	1190	143	169.05	108	1.99
SEQUOYAH CO																
372760471 F01	69	14	18	28	34	38	47	55	71	109	126	713	71	91.72	50	2.15
SHAWNEE																
372800052 F01	95	3	27	32	40	43	47	51	59	71	102	151	55	29.23	48	1.75
STILLWATER																
372940810 F01	57	11	33	35	39	48	58	67	69	80	117	778	73	99.26	57	1.85
TULSA																
372[illegible]001 A01	25	3	37	40	45	51	56	63	66	78	90	143	61	27.82	52	2.01
PENNSYLVANIA																
ALLENTOWN																
39[illegible] A01	24	53	60	65	77	81	92	104	106	108	125	180	94	26.16	90	1.35
ALTOONA																
39[illegible] A01	26	36	56	76	90	94	97	116	121	150	186	278	113	54.02	102	1.60
BETHLEHEM																
39[illegible]002 A01	25	33	46	50	61	62	76	78	87	97	115	143	77	26.35	73	1.41
ERIE																
39[illegible]02 A01	26	17	37	48	55	66	70	84	96	98	120	218	79	40.94	70	1.70
HARRISBURG																
39[illegible] A01	25	44	49	55	76	85	89	90	104	109	130	160	89	30.07	84	1.43
HAZLETON																
39[illegible]001 A01	25	45	60	65	90	95	106	112	148	160	196	383	125	70.89	111	1.64
PHILADELPHIA																
39[illegible]01 A01	24	48	57	70	82	91	97	114	121	136	164	200	106	39.26	99	1.46
39[illegible]12 A01	116	22	76	92	101	121	136	155	168	194	254	348	146	64.70	132	1.60
SCRANTON																
39[illegible]01 A01	26	96	107	138	155	184	206	224	277	296	427	870	247	170.31	211	1.71
WILKES-BARRE																
39[illegible]01 A01	25	50	69	74	87	88	108	110	117	128	134	192	105	31.87	101	1.35
YORK																
39[illegible]01 A01	25	45	58	66	75	80	92	97	112	115	138	180	97	34.73	92	1.42
PUERTO RICO																
CLAVIJATILLA																
4[illegible] A01	26	37	43	46	51	53	56	61	66	68	88	96	59	15.37	58	1.28
PONCE																
4[illegible]002 A01	24	49	63	70	78	80	88	89	100	106	120	146	89	22.46	87	1.29
RHODE ISLAND																
EAST PROVIDENCE																
41[illegible]001 A01	23	22	39	47	48	53	58	60	71	81	105	111	63	23.38	59	1.46
PROVIDENCE																
41[illegible]001 A01	28	45	49	54	60	65	79	100	113	120	154	172	92	38.93	84	1.52
SOUTH CAROLINA																
GREENVILLE																
42118[illegible]01 A01	26	28	33	47	48	52	61	69	92	95	141	145	71	34.51	63	1.62
SOUTH DAKOTA																
SIOUX FALLS																
43140[illegible]01 A01	25	32	41	58	62	71	77	91	101	110	129	165	84	32.30	78	1.55

Table 4-1 (continued). SUSPENDED PARTICULATE MATTER, URBAN FREQUENCY DISTRIBUTIONS FOR 1971

05/06/72

YEAR 1971

METHOD: HI-VOL/GRAVIMETRIC

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, % 10	20	30	40	50	60	70	80	90	MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
TENNESSEE																
CHATTANOOGA																
44[illegible]017 G01	55	12	19	27	35	40	44	54	70	76	104	147	54	30.27	46	1.82
44[illegible]31[illegible] G01	81	23	30	44	57	71	96	118	132	147	175	347	105	66.68	85	1.96
44[illegible]020 G01	287	15	63	74	87	100	108	119	131	157	187	339	117	51.86	106	1.58
HAMILTON CO																
4412[illegible]1 G01	47	17	31	42	48	54	58	61	66	82	95	194	62	30.32	56	1.57
KNOXVILLE																
44174[illegible]2 A01	26	39	49	65	70	76	82	87	102	112	133	176	89	33.45	83	1.44
MEMPHIS																
44234[illegible]1 A01	25	46	50	55	73	82	97	103	113	122	134	199	95	36.65	89	1.47
TEXAS																
DALLAS																
45131[illegible]2 A01	24	29	50	55	70	77	85	96	100	135	150	171	91	37.54	83	1.56
FORT WORTH																
45108[illegible]1 A01	26	43	46	55	62	68	71	77	84	88	120	132	77	24.21	73	1.36
HOUSTON																
45256[illegible]1 A01	26	49	55	67	76	100	104	111	122	125	135	180	101	33.34	95	1.42
PASADENA																
45406[illegible]2 A01	25	47	53	58	66	71	83	85	102	108	126	227	89	38.23	83	1.44
SAN ANTONIO																
45457[illegible]1 A01	24	10	37	38	49	51	55	64	72	77	87	114	61	24.02	55	1.64
UTAH																
OGDEN																
46[illegible]1 A01	26	42	51	59	62	75	83	100	141	151	164	302	109	73.67	93	1.71
VIRGINIA																
FAIRFAX CO																
4[illegible]1 A01	25	30	33	36	46	48	55	58	63	74	84	98	57	18.82	54	1.39
HAMPTON																
4[illegible]1 A01	25	24	38	39	43	45	52	54	63	66	84	103	55	18.33	53	1.39
LYNCHBURG																
4[illegible]1 A01	25	44	57	76	85	86	99	102	114	124	153	322	110	56.74	100	1.53
NEWPORT NEWS																
462120001 A01	25	17	27	35	38	44	53	59	64	67	71	82	51	17.54	48	1.48
NORFOLK																
44214[illegible]1 A01	25	18	47	56	61	66	73	75	100	107	137	189	83	37.52	75	1.63
ROANOKE																
4427[illegible]1 A01	25	47	59	62	69	79	84	91	110	125	138	151	92	30.90	87	1.41
WASHINGTON																
SEATTLE																
49184[illegible]1 A01	25	23	34	40	44	52	57	62	64	81	112	158	64	31.99	58	1.57
SPOKANE																
4924[illegible]1 A01	25	26	40	46	49	78	85	96	116	121	150	291	96	58.57	82	1.78
TACOMA																
49214[illegible]1 A01	25	21	25	32	37	39	42	53	62	75	109	198	67	41.12	50	1.76
WEST VIRGINIA																
CHARLESTON																
[illegible] A01	25	27	63	79	98	108	130	158	183	196	258	384	151	82.94	130	1.80
SOUTH CHARLESTON																
5017[illegible]1 A01	26	49	49	54	66	77	91	102	123	139	185	384	111	77.19	94	1.75
WISCONSIN																
EAU CLAIRE																
51084[illegible]1 A01	25	12	29	32	39	39	44	48	58	63	82	142	52	27.66	46	1.67
KENOSHA																
5119[illegible]1 A01	24	27	44	53	56	59	65	65	75	105	126	161	73	31.49	68	1.49
MADISON																
51[illegible]1 A01	26	30	41	47	50	54	59	72	86	91	112	146	69	27.71	64	1.47
MILWAUKEE																
5122[illegible]1 A01	24	39	45	60	74	82	88	96	111	113	133	143	89	30.04	84	1.45
WYOMING																
CASPER																
56[illegible]1 A01	26	13	36	50	56	70	73	85	109	112	152	403	95	76.85	77	1.94
CHEYENNE																
56[illegible]1 A01	21	5	10	15	21	23	25	32	35	54	57	91	32	22.04	26	2.02

Table 4-2. SUSPENDED PARTICULATE MATTER, NONURBAN FREQUENCY DISTRIBUTIONS FOR 1971

POLLUTANT : 11101 - PARTICULATE 05/05/72

YEAR : 1971 METHOD CODE : 91

SAMPLING INTERVAL : 24-HOUR

UNITS : UG/CU METER (25 C)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC MEAN	ARITHMETIC STD. DEV.	GEOMETRIC MEAN	GEOMETRIC STD. DEV.
			10	20	30	40	50	60	70	80	90					
ARKANSAS																
MONTGOMERY CO																
041760001 A03	24	14	21	22	26	28	31	33	39	50	52	154	38	27.78	33	1.62
COLORADO																
MESA VERDE NAT PAR																
0815300C2 A03	24	6	8	9	11	12	13	18	23	26	40	104	22	20.93	17	1.98
FLORIDA																
BARDEE CC																
1C1680901 A03	22	20	24	28	30	30	31	38	44	49	65	177	44	33.07	38	1.63
HAWAII																
HAWAII VOLCANOES N																
12[illegible]0001 A03	26	5	6	8	8	9	11	12	17	21	25	82	16	15.59	12	1.89
IDAHO																
BLITE CC																
13C340C01 A03	23	1	6	7	8	13	14	15	17	20	23	26	14	7.01	11	2.20
INDIANA																
PEARCE CC																
152830001 A03	23	16	28	29	32	38	41	47	50	54	60	85	42	13.29	40	1.42
PARKE CC																
153280C01 A03	25	28	32	38	44	52	58	60	70	85	103	139	64	29.18	59	1.55
MAINE																
ACADIA NAT PARK																
20[illegible]1U001 A03	23	10	12	16	20	23	26	28	30	31	37	40	25	8.86	23	1.50
MISSOURI																
SHANNON CO																
264483302 A03	25	5	16	19	22	23	26	27	39	44	47	89	32	20.29	27	1.86
MONTANA																
GLACIER NAT PARK																
27[illegible]7C0L1 A03	23	4	5	6	8	10	11	15	19	27	29	92	19	22.27	13	2.29
NEW HAMPSHIRE																
CCCS CC																
30[illegible]7C01 A03	23	8	10	11	13	17	19	22	24	27	33	57	21	11.43	19	1.65
NEW YORK																
JEFFERSON CC																
333347[illegible]1 A03	26	6	13	18	18	19	20	22	29	31	47	54	25	12.10	22	1.65
PENNSYLVANIA																
CLARION CO																
391[illegible]C1 A03	26	14	17	25	25	30	33	35	41	53	58	80	36	16.84	33	1.58
RHODE ISLAND																
WASHINGTON CC																
41C93[illegible]2 A03	26	18	21	22	25	29	30	40	43	51	79	91	39	20.65	35	1.61
SOUTH CAROLINA																
RICHLAND CC																
421950302 A03	24	11	20	28	30	31	33	39	43	48	58	75	37	15.65	34	1.58
SOUTH DAKOTA																
BLACK HILLS NAT FO																
43C110C01 A03	23	6	7	7	8	10	11	15	16	28	38	46	17	12.43	14	1.93
TEXAS																
MATAGORDA CC																
455353[illegible]1 A03	23	5	22	23	30	37	38	40	41	54	85	118	43	25.58	37	1.87
TOM GREEN CC																
4552[illegible]1 A03	25	10	25	31	42	53	56	61	80	132	176	268	82	67.65	60	2.24
VERMONT																
ORANGE CC																
47C36[illegible]1 A03	25	3	20	21	24	28	33	35	40	43	48	74	33	15.15	29	1.85
VIRGINIA																
SHENANDOAH NAT PAR																
48285[illegible]1 A03	26	11	15	19	21	24	27	34	43	45	51	57	31	14.95	28	1.61
WYTHE CC																
48344E0G1 A03	26	5	14	17	18	22	24	29	41	45	47	53	29	13.90	25	1.77
WASHINGTON																
KING CC																
49C9[illegible]032 A03	24	7	13	17	20	24	29	34	42	44	47	106	33	20.60	28	1.87
WYOMING																
YELLOWSTONE NAT PA																
52[illegible]0C01 A03	25	2	3	4	5	5	8	8	14	15	17	27	9	6.38	7	2.03

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